THE WUWEI MEDICAL MANUSCRIPTS: A BRIEF INTRODUCTION AND TRANSLATION

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Abstract

Discovered by farmers from an unmarked tomb in 1972 in Gansu, the Wuwei strips and tablets set forth a wealth of information about ancient Chinese drug formulary and acupuncture. The present article supplies the first English-language translation of its contents along with a brief introduction.

Introduction

While repairing an irrigation system in November 1972, farmers discovered a vaulted tomb in Hantanpo 早灘坡, 10 km from Wuwei 武威 city in Gansu province, dating to the early Eastern Han dynasty (25–220 C.E.). Judging from the fact that a staff with a pigeon top was placed in front of the coffin, the tomb occupant, whose name is lost to us, was probably over the age of seventy sui 歲. Outside of the coffin were seven grave goods made of earthenware, including pots (hu 壺), miniature warehouses (cang 倉), stoves (zao 炉), wells (jing 井), and dishes (pan 盤). Within the coffin were coins and two beads. At the head of the tomb occupant’s corpse was a hemp bag containing seventy-eight documents, bundled together. Upon examination, archaeologists determined that the bulk of the documents contained contents related to drug formulary. The sheer number of formulas discussed in the documents makes this site incomparable for the Eastern Han period. Yet, despite its importance, scholars have largely overlooked the find, particularly in comparison to the medical manuscripts recovered from the Mawangdui 馬王堆 site (c. 168 B.C.E). In the four decades since the publication of the complete transcription, only a handful of works on the Wuwei documents exists. These include studies by Akahori Akira 赤堀昭 and Yamada Keiji

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The Archaeological Context

Unlike other well-known Qin and Han finds, much of the archaeological context of the Wuwei manuscripts, discovered during the Cultural Revolution, is lost to us. Archaeologists have yet to identify the tomb in which the documents were discovered. However, the following facts are known. At the time of the site report’s publication in the 1973 issue of Wenwu文物, archaeologists believed that the tomb was part of a cluster of six to seven Han-dynasty burials. These burials were proximate to another larger cluster of about forty Han-dynasty tombs at the Mozuizi磨咀子 site, approximately twenty-five kilometers away.4

While the exact spatial coordinates of the site are currently unknown, the site report reveals the following about the tomb’s characteristics and dimensions. Archaeologists classified the burial as a single chamber tomb (tudong danshi土洞單室). The front of the tomb’s door was connected through a sloped path (xiepo mudao斜坡墓道). The door and chamber of the tomb were both flat top (pingding平頂). The door of the tomb also used large gravel (dalishi大礫石) as a seal. From top to bottom, the tomb chamber measured 4 m. The door of the tomb was 1.0 m in height, 0.72 m in width, and 0.6 m in depth. The tomb was furthermore oriented 60° to the East. The coffin was 3.4 m from East to West, 1.25 m...
from North to South, and 1.1 m in height.\(^5\) By the time that the tomb was discovered, the corpse, which had been laid supine, had decayed, although some of the skeleton remained. Based on the surviving remains, archaeologists determined that the tomb occupant had been male.\(^6\) Based on the presence of documents with medical contents, Luo Fuyi further conjectured that the tomb occupant had been a doctor. This identification, however, is speculative.\(^7\)

The Strips and Tablets: an Overview of the Manuscripts

When archaeologists recovered the manuscripts, they discovered that the documents had been affected by the corpse’s decay and were partially rotten, incomplete, and unclear.\(^8\) The documents were furthermore in a state of disarray, making it difficult for the archaeologists to reconstruct the contents.\(^9\)

At present, there are 92 strips (jian 簡) and tablets (mudu 木牘).\(^10\) Of those, 78 are strips and 14 are tablets. The strips were composed of wood from pine and poplar, two common materials used to make documents in the Northwest. The strips had writing only on one side. Of the strips, about sixty were complete. The average length of the strips was between 23.0 and 23.4 cm. The strips also lacked numbers. The archaeologists divided the strips into two categories (lei 類) based on the width of the strips and the remnants of the binding cord.\(^11\)

The strips from the first category (strips 3–41) were one centimeter in width, and notches were cut into the sides (qiekou 鍥口). The strips were connected by three binding cords, traces of which can still be


\(^{8}\) Gansusheng bowuguan and Gansusheng Wuweixian wenhuaguan, “Wuwei Hantanpo,” 19.

\(^{9}\) Gansusheng bowuguan and Gansusheng Wuweixian wenhuaguan, “Wuwei Hantanpo,” 19.

\(^{10}\) We find it useful to distinguish between strips (jian 簡) and tablets (mudu 木牘), despite the fact that the two could be composed of similar materials. At the Wuwei Hantanpo site, the strips (jian) were made of wood, like most strips found in the Northwest. However, in other areas of China, particularly in the south, the strips were made of bamboo. The main differences between the strips (jian) and tablets (mudu) discovered at Wuwei lie in their width, as well as the fact that writing was found on both sides of the tablets.

\(^{11}\) Gansusheng bowuguan and Gansusheng Wuweixian wenhuaguan, “Wuwei Hantanpo,” 19.
detected. In the first category, 41 strips were preserved. Among these, more than 30 were whole or partially intact. Each strip had about 35 characters on it.\(^\text{12}\)

The strips placed in the second category (strips 42–78) by the authors of the site report were narrower, being half a centimeter in width. The sides of these strips lacked notches. The strips in this category totaled 37 in number, and each strip had approximately 37 characters and was bound with three binding cords.\(^\text{13}\)

The authors of the site report surmised that the strips were ordered and bound together before text was written on them. Because of their overlapping contents, the authors inferred that the two categories of strips originally belonged to the same text.\(^\text{14}\) Yet this view has its drawbacks and overlooks certain features of the manuscripts, something pointed out by the authors of the site report. For example, such a view neglects the fact that the two categories differed in terms of the width of the strips, as well as the placement of the binding cords.\(^\text{15}\)

According to the authors of the site report, the tablets were mostly composed of pinewood. On all but two of the tablets, writing appeared on both sides. The tablets moreover were wider than the strips; the tablets range between 1.1 and 4 cm in width. The tablets were between 22.7 and 23.9 cm in length and between 0.2 and 0.6 cm in thickness. The tablets furthermore lacked any trace of binding.\(^\text{16}\)

The Writing

The documents were written mostly in clerical script (lishu 隸書), with the minority of the contents rendered in cursive (caoshu 草書).\(^\text{17}\) In terms of handwriting, we could detect three distinct styles (one of which was rendered in caoshu). Yet it is unclear whether these styles represented the hands of three different scribes or the handwriting of a single person at different periods of time.

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In terms of orthography, there were many instances of phonetic borrowings (tongjia zi 通假字) and graphic variants (yiti zi 異體字). Examples of phonetic borrowings include shi 矢 for shi 屎 (strip 18). For variants, we found numerous examples such as the substitution of yong 愿 for tong 痛 (strip 11) and jiu 尬 for jiu 灸 (strip 21). Also, we found variants such as bufu 不复 for bufu 不復 on strips 48 and 59. In only a few cases, we found unambiguous evidence of scribal error. For example, on strip 6, the character for five (wu 五) was written for six (liu 六).

Contents

With the exception of tablet 92, the contents of the strips and tablets are medical in nature. We can further divide the subject of the documents into three kinds: medical formulas, acupuncture (and restrictions on acupuncture), and a fragmentary register of purchased materia medica. With respect to the formulas, the contents are practical as opposed to theoretical; they relate the substances and preparation methods for remedies and say little about the etiology of illnesses.

The formulas reference a wide range of materia medica. By one account, the substances mentioned in the manuscripts include 63 herbs, 12 animal products, 16 minerals, and 9 substances that could not be categorized. Of these, 69 of the one hundred substances mentioned in the Wuwei documents also appear in the Shennong bencao jing 神農本草經; another 11 are found in the Mingyi bielu 名醫別錄. Another 20 substances are not found in either classic of pharmacopoeia. The Wuwei manuscripts also include materia medica local to the Northwest: the excrement of herd animals, such as white sheep (baiyang shi 白羊屎).


19. Gansusheng bowuguan ed., Wuwei Handai yijian, 27. This claim is at variance from what was reported earlier by the Zhongyi yanjiuyuan yishi wenxian yanjiushi 中醫研究院醫史文獻研究所, “Wuwei Handai yiyao jiandu zai yixueshi shang de zhongyao yiyi” 武威漢代醫藥簡牘在醫學史上的重要意義, Wenwu 1973.12, 23–29; 24, 26. We follow what appears in the 1975 publication by the same research team, which seems to have been a revision of the earlier essay.

The Structure of the Formulas

The vast majority of the formulas found in the Wuwei documents follow a set pattern, suggesting a high degree of standardization. The general pattern is depicted in Figure 1. Figure 2 shows the contents of tablet 82. As we can see from Figure 2, the characters at the formula’s beginning could not be transcribed in whole, but it is clear that the text begins with the name of the formula, which reflects the nature of the ailment. Then comes the seven substances to be used and their quantities. Next follows the preparation of the medicinal substances (specifically, the processing of all seven substances and the use of honey to combine the mixture into a pellet) and the methods of administration (the medicine is to be taken

![Figure 1](structure.png)

**Figure 1** Structure of the Wuwei formulas. Figure drawn by authors.

<table>
<thead>
<tr>
<th>Part</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>Formula name</td>
<td>A formula to treat chronic diarrhea, leaking abdomen where there is blood [and pus] letting in the stool (?) [4 illegible characters and 4 more untranslatable characters] ... cases of illnesses that healers cannot treat and all refuse to see:</td>
</tr>
<tr>
<td>Substance Amounts &amp; Names</td>
<td>Four fen of Golden Thread (Coptis chinensis). 1 fen each of: Baical skullcap; Halloysite, fossil bones, ginseng, ginger root, and cassia twigs.</td>
</tr>
<tr>
<td>Preparation methods</td>
<td>Pulverize and combine all seven of these substances, making pellets as large as crossbow pellets with honey.</td>
</tr>
<tr>
<td>Methods of Administration</td>
<td>Before supper, drink one pellet of medicine with congee.</td>
</tr>
<tr>
<td>Additional substances</td>
<td>If there is no improvement [4 illegible characters].</td>
</tr>
<tr>
<td></td>
<td>If there is [1 illegible character] in the abdomen, add 2 fen of licorice.</td>
</tr>
<tr>
<td></td>
<td>If there is a lot of blood, add 2 fen of cassia twigs.</td>
</tr>
<tr>
<td></td>
<td>If there is a lot of pus, then add 2 fen of Halloysite ... [7 illegible characters and 2 untranslatable characters] ... add one fen of Baical skullcap.</td>
</tr>
<tr>
<td>Restrictions on activity</td>
<td>One is prohibited from eating fresh fish or pork.</td>
</tr>
<tr>
<td>Restriction on transmission</td>
<td>Proscribed formula</td>
</tr>
<tr>
<td>Efficacy</td>
<td>Efficacious</td>
</tr>
</tbody>
</table>

**Figure 2.** An Analysis of a Wuwei Formula (tablet 82). With the exception of providing additional information for atypical symptoms, the formula above follows the pattern found in the rest of the corpus.
before supper, and one pellet should be administered with congee). At this point, the formula deviates from the pattern found elsewhere in the manuscripts and adds provisions for additional symptoms. The text further mentions proscribed foods and restrictions on transmission before concluding with comments about the formula’s efficacy.

Insofar as the formulas follow a single format, the Wuwei manuscripts stand apart from other early collections. Most of the others—notably, those uncovered at the Zhoujiatai 周家臺 site (c. 209–206 B.C.E.), Liye 里耶, and Mawangdui—do not follow a uniform format.21 (The Liushazhui 流沙墜 strips, dating to the Han dynasty and also from the Northwest, were similar to those uncovered at Wuwei insofar as they too conformed to a set pattern.22) The Wushier bingfang 五十二病方, from Mawangdui, provides a case in point. As Figures 3 and 4 reveal, the formulas in that collection have different structures.23

Comparison of Contents

The authors of the Wuwei manuscripts emphasized precise dosage, a feature first seen in the newly discovered Laoguanshan 老官山 site (dat-

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21. For examples of formulas that exhibit different formats from those found at the Wuwei site, see Chen Wei 陈偉 et al., Liye Qin jiandu jiaoshi 里耶秦簡牘校釋 (Wuhan: Wuhan daxue chubanshe, 2012), vol. 1, 270.
22. See the examples of formulas for persistent coughs and saddle wounds in Luo Zhenyu 羅振玉 and Wang Guowei 王國維, Liushazhui jian 流沙墜簡 (Beijing, Zhonghua, 1993), 23.
23. For Figure 3, see Qiu Xigui 裘錫圭, ed., Changsha Mawangdui Hanmu jianbo jicheng 長沙馬王堆漢墓簡帛集成 (Beijing: Zhonghua shuju, 2014), vol. 5, 219 (23); Donald Harper, Early Chinese Medical Literature (London: Kegan Paul, 1998), 227–28. For Figure 4, see Changsha Mawangdui Hanmu jianbo jicheng, vol. 5, 284 (385–75); Harper, Early Chinese Medical Literature, 292–93.
ing to the second century B.C.E.). The formulas make use of a wide range of measurements for weight and volume. Common examples include fen (used for weight), as well as liang and sheng (13.8 g and 200 ml respectively for the Eastern Han dynasty). For a typical example, consider one excerpt from the Wuwei site:

A formula to treat eyes in pain: In the first ten-day period of the three months of spring, make a medicine: four liang [55.2 g] of Malachite or Laminar, and three liang [41.4 g] of Turkestan Salt. Pulverize and combine all of these, mixing together with milk and filling it in a bronze utensil. Use this to apply to the eyes. Efficacious.

In this regard, the Wuwei and Laoguanshan manuscripts stand apart from other excavated works of materia medica. Those found at Zhoujiatai, Liye, and Mawangdui, for example, tend to be vague about quantities. Admittedly, we find a few references in these corpuses to precise measurements, for example to sheng. More typical, however, is the following excerpt, taken from the Liye site:

Number seven. To treat those stricken with a violent eruption of heart pain that burns: Pulverize two seeds of Penny-cress [Thlaspi arvense]. Pulverize one dried ginger [Zingiber officinale] and one Cassia twig [Cinnamomum cassia]. Mix all three of these substances. Take a three-finger pinch, knuckle deep with warm, fine alcohol with a strong flavor.


The author of the formula did not feel the need to specify the amount of ginger in terms of weight or volume. Instead, he merely indicated the number of seeds and pieces of ginger. It is only at the end of the formula that we see anything approximating a standard quantity (a three-finger pinch), but that measurement, which varies according to the size of the maker’s fingers, is still less specific than the units of measurement discussed in later texts, such as a square-inch spoonful (fangcun bi  方寸匕), which can be rendered down to the milliliter.

Divination, Exorcism, and Divine Intervention

The Wuwei manuscripts offer a contrast to other early excavated manuscripts in another respect: we find no trace of exorcism and other techniques used to mitigate the malevolent influence of spirits and other divine beings. Instead, the former set of manuscripts focuses on treating illnesses exclusively through the administration of drug formulary, external pastes, and, to a lesser extent, acupuncture. In this respect, the Wuwei manuscripts are a far cry from earlier finds, particularly those seen at Zhoujiatai and Mawangdui. There, one sees plentiful references to the “Pace of Yu” (Yu bu 禹步), a ritual step used to avoid various hazards and misfortunes, such as disasters or illnesses associated with spirits and demons.26

Forbidden Formulas

The prohibitions in the Wuwei manuscripts represent another noteworthy feature. The manuscripts contain at least two kinds of prohibitions. The first are restrictions on activities and foodstuffs during the period of a medicine’s administration. These include the consumption of fish, pork, spicy foods, and alcohol, as well as activities such as sexual conduct, physical exertion, and exposure to wind. These restrictions are similar to those of the Wushier bingfang. The second are prohibitions on transmission, as in the following excerpt:

[Indeterminate number of missing characters] ... Eat and drink. Repeatedly tested. Proscribed; do not transmit.

While attested in the received literature, unambiguous evidence of restriction on transmission is absent from most medical manuscripts

26. On this point, see the discussion in Harper, *Early Chinese Medical Literature*, 168–69. The Qin strips kept at the Peking University Museum also include exorcistic or spiritual methods. On this point, see Chen Kanli 陳侃理, “Beida Qin jian zhong de fangshu shu 北大秦簡中的方術書,” *Wenwu* 文物 2012.6, 90–96; 94.
We do however find one parallel to the restrictions found at Wuwei in a published fragment from the recently discovered Laoguanshan find:

五十七。治血暴發者:屑土瓜二枚, 蒙菌、圭各一, 取一籥, 温美酒半升。莫勿食, 旦飲之, 日一, 五日已。禁。

Number 57. To treat blood that bursts forth abruptly. Mince two pieces of tugua [i.e., some kind of unidentified tuber], and one each of mengjun [an unidentified substance] and cassia twig. Take one yue [10 ml] of the medicine with one half sheng [100 ml] of warm, fine alcohol. Do not eat at dusk. Drink it in the morning once a day. In five days, the illness will come to an end. Proscribed.

Attribution of Formulas

The Wuwei manuscripts attribute formulas to several figures. These include a Mr. Lu (Lu shi 魯氏 on strip 43), Mr. Gongsun (Gongsun jun 公孫君 on tablet 83), possibly Gongsun Guang 公孫光; the Lord of the White Waters (Baishui hou 白水侯 on tablet 84); the Lord of Donghai 東海侯 (Donghai hou on tablet 84); Mr. Lü Gong (Lü Gong jun 呂功君 on tablet 42); and General Geng of Jianwei (Jianwei Geng jiangjun 建威耿將軍), probably Geng Yan 耿弇 (3–58 C.E., on tablet 85).

In this regard, the Wuwei manuscripts follow a pattern. Published excerpts from the looted manuscripts at the Peking Museum also attribute formulas to individuals—for example to Mr. Qin (Qinshi 秦氏, possibly a reference to Bian Que or Qin Yueren 秦越人), Ling You 泠游, and...
Weng Yi 翁壹. In contrast, the Zhoujiatai or Mawangdui manuscripts do not attribute formulas to some authority figure or historical personage.

Conventions of Translation and Interpretative Problems

Transcription

Our transcription was made on the basis of the photographs supplied in Wuwei Handai yijian 武威漢代廟簡 (Beijing: Wenwu, 1975). We have made every effort to transcribe the characters as they appeared on the original strips, including non-standard graphs and punctuation marks. Where possible, we also consulted the color photographs of a handful of the tablets published in Hexi jiandu 河西簡牘 (Chongqing: Chongqing, 2002). In addition, we have provided our annotations of non-standard graphs, phonetic loans, variant characters, and errors in the footnotes. We furthermore left a blank box ☐ where we could not transcribe a character due to the fact that the character was illegible. In cases where the text was broken, we have added a box containing a cross □. In some cases, our transcription of a graph is tentative. We have marked such characters in brackets [] and explained our reasoning in a note.

Furthermore, we encountered several instances in which the scribes employed punctuation markers. For a comma •, we marked a • in the transcription; for a long comma ‟, we added a •. In some cases, the scribe used a ditto mark to indicate that a character was to be duplicated. In those instances, we used an equal sign = to denote the presence of such a mark. We also added the duplicated character in parentheses ().

We have also consulted the transcriptions made by the editors of the Wuwei volume (hereafter the Wuwei editors), Akahori Akira and Yamada Keiji, He Shuangquan 何雙全, and Zhang Yanchang. In cases where our transcriptions departed from those of previous scholars, we noted this in the footnotes. Finally, we added our own punctuation to the text.

Identification of Substances and Weights and Measures

For the identification of materia medica, we primarily followed the translations provided by Shiu-ying Hu in An Enumeration of Chinese Materia Medica, 2nd edition (Hong Kong: Chinese University Press, 1999). In cases where Hu does not offer an identification, we consulted Nathan Sivin's Chinese Alchemy: Preliminary Studies (Cambridge, MA: Harvard University Press, 1968), Penelope Barrett's Appendix in Vivienne Lo and...
Christopher Cullen, eds., *Medieval Chinese Medicine: The Dunhuang Medical Manuscripts* (London: Routledge, 2009), and Bernard E. Read’s *Chinese Medicinal Plants from the Ben Ts’ao Kang Mu A.D. 1596*, 3rd edition (Peking: Peking Natural History Bulletin, 1936). Occasionally, we encountered substances that could not be identified, as no parallels are attested in received texts. These include substances like mendong 门冬 (tablet 80). In such cases, we have chosen to simply transliterate the characters without translation. It bears emphasis, however, that the exact identification of botanical, zoological, or mineral substances remains uncertain, something previously noted by Donald Harper and Paul Unschuld.\(^\text{32}\) Indeed, scholarly opinion sometimes divides on the identification of substances in the Wuwei corpus, so readers should treat the translations of pharmacological agents as tentative identifications.

**Loans, Variants, and Phonetic Borrowings**

With respect to identifying phonetic loans, orthographic variants, and errors, we draw upon the work of the Wuwei editors, Akahori and Yamada, and Zhang Yanchang. For phonetic loans, we checked the identifications proposed by previous scholars such as Akahori and Yamada, and especially Zhang Yanchang, against several sources. These include the *Guwenzi tongjia shili* 古文字通假释例, by Wang Hui 王辉 (Taipei: Yiwenzhi yinshuguan, 1993), and the reconstructions for the Later Han (hereafter LH) in *Minimal Old Chinese and Later Han Chinese: A Companion to Grammata Serica Recensa* by Axel Schuessler (Honolulu: University of Hawai’i Press, 2009). Additionally, we consulted the eminent linguist William Baxter, who checked published reconstructions, evaluated whether characters could be substituted for each other, and reconstructed the phonology of characters not found in *Minimal Old Chinese*.

It bears mentioning that we often diverge from the opinions of earlier scholars who have identified errors and phonetic loans, especially Zhang Yanchang (who identifies many errors and phonetic loans). Based on recent work in paleography, we are mindful of the difficulty of differentiating between variants and errors before the establishment of an orthographic standard.\(^\text{33}\) We further acknowledge the difficulty of

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distinguishing phonetic loans from graphic variants in early manuscripts. The occurrence of cai 采 (to gather) on strip 30 illustrates this problem. The Wuwei editors, Akahori and Yamada, and Zhang Yanchang interpret this graph as cai 菜 (vegetables). As in most cases, the Wuwei editors and Akahori and Yamada do not supply a rationale for interpreting the graph this way, most likely because they believed that it was obvious that the former was a variant of the latter. Zhang Yanchang, however, claims that cai 采 (Schuessler 4–44 < LH *tsʰə) was a phonetic loan for cai 菜 (Schuessler 4–44> LH *tsʰə). Similarly, Zhang Yanchang asserts that zhi 直 (Schuessler 5–12 < LH *dik), appearing in tablets 91A–91B, was a phonetic loan for zhi 值 (Schuessler 5–12 < LH *də). While Zhang is correct about the closeness of the pronunciation in both cases, we wonder about the wisdom of labeling such graphs “loans.” Ancient scribes often substituted characters containing the same phonetic element but with different radicals. Indeed, the Wuwei scribe or scribes frequently substituted graphs with similar phonetic elements, and sometimes used more than one variant in the same text. Examples of this include writing yong 慾 (strips 12, 13, 15, etc.) and yong 慤 (strip 52) for tong 痛. In light of this, we have decided to reserve the label “phonetic loans” for instances in which two characters probably had similar or identical pronunciations, but were composed of different phonetic elements. In cases where the characters differed only in terms of their radical, we have chosen to refer to these substitutions as variants.

For weights and measures, we followed the values given by the Hanyu da cidian 漢語大詞典. Our readings have been supplemented by Wu Chenglue 吳承洛, Zhongguo duliang hengshi 中國度量衡史 (Shanghai: Shangwu yinshuguan, 1937, rpt. 1957). We also consulted Zhongguo gudai duliang heng 中國古代度量衡 (Beijing: Keji, 1992) by Qiu Guangming 丘光明.

Differences in Interpretation

For our translation, we have consulted a range of opinions. The major works on the subject include those by the Wuwei editors, Akahori and Yamada, and Zhang Yanchang. The Wuwei editors provide their transcription of the strips and tablets without punctuation; Akahori and Yamada Keiji and Zhang Yanchang offer their transcriptions and punctuation of the text. Akahori and Yamada also translate the text into

34. Gansusheng bowuguan, Wuwei Handai yijian, 6; Akahori and Yamada, Shinhat-sugen Chūgoku kaigakushi shiryō no kenkyū, 376.
35. Zhang Yanchang, Wuwei Handai yijian zhujie, 121, n. 5.
modern Japanese. The three existing interpretations of the text differ from each other at points, although Akahori and Yamada follow the Wuwei editors closely in terms of transcription. Akahori and Yamada and Zhang Yanchang, for example, often disagree on punctuation. Moreover, we have considered the interpretations on specific points offered by other scholars, such as He Shuangquan.

In preparing our translation, we made efforts to identify all major differences of opinion with respect to transcription, punctuation, and the identification of substances and technical vocabulary. We also explain our departures from previous interpretations, as well as our reasons for selecting one interpretation over another.

Our reasoning reflects two general principles: (1) consistency (this is important when interpreting antonyms or words used interchangeably); and (2) parallelism (the assumption that words found in the same place, either within a single formula or a collection of formulas, are equivalent units).

In this regard, we provide two examples where our interpretations diverged significantly from previous scholarship. For example, both Akahori and Yamada and Zhang Yanchang interpret the copious references to fen 分 as “equal proportions” (dengfen 等份) as opposed to a unit of weight measurement. Akahori and Yamada Keiji assert, “Fen is not a unit of weight, but refers instead to the proportion of the medicinal substances.”37 Similarly, Zhang Yanchang annotates the first reference to fen on strip 3, writing, “This is not actually fen as in the unit of weight measurement but rather proportion.”38 He adds that most of the strips and tablets use fen in this way. Akahori, Yamada, and Zhang Yanchang draw upon an old interpretation of fen, promoted by Luo Zhenyu 羅振玉 (1866–1940) and Wang Guowei 王國維 (1877–1922) in the early twentieth century. Their interpretation of fen was based on a limited set of sources and reflected a still older view, found in the commentary to the Bencao jing, which observes, “Ancient balances only had zhu and liang [as units of measurement] and did not have the appellation of fen” 古秤唯有銖兩而無分名. This interpretation has been challenged by Qiu Guangming 丘光明, Qiu Long 邱隆, Yang Ping 楊平, and Lu Jiaxi 盧嘉錫, who show through their examination of received texts that fen was, in fact, a measurement of weight by the third century C.E.39

37. Akahori and Yamada, Shinhatsuugen Chūgoku kagakushi shiryō no kenkyū, 365, n. 8.
The view of fen promoted by Akahori, Yamada, and Zhang Yanchang is untenable; not only is it inconsistent with the principles of parallelism and consistency but it does not mesh with other examples of fen’s usage in the corpus. For example, consider the following excerpt from Wuwei:

治邯人膏藥方：[樓]三升，當歸十分，白茝四分，付子卅枚，甘草七分，
弓大薑十分，薌草二束 88A

A formula for a medicinal paste to treat women:

[Unknown quantity], 3 sheng [600 ml].
Chinese Angelica, 10 fen.
Fragrant Angelica, 4 fen.
Szechuan aconite root, 30 pieces (mei).
Licorice, 7 fen.
[3 untranslatable characters, including one non-standard graph], 10 fen.
Chinese lovage [Ligusticum sinense or L. jeholense], 2 bundles.

Here, fen appears alongside other units of measurement (sheng for volume, mei for the number of pieces, and shu for bundles), thereby making it unlikely that fen meant “equal proportions.” What is more, other Han-dynasty texts from the Northwest use fen and liang in the same formula, which further suggests that fen must be a unit of measurement. The Maquanwan 馬圈灣 site, also from the Northwest, for example, contains the following formula:

良□治□善者一两，李石十分，人参十分取善者。

Efficacious … [1 illegible character] treat … one liang [13.8 g] of good quality [1 illegible character], 10 fen of lishi [i.e., an unknown substance], and 10 fen of high-quality ginseng [Panax ginseng].

Here, the presence of liang and fen within the same formula reveals that they must have an equivalent function in the text. Since liang is certainly a unit of measurement, this strongly implies the same for fen.

Our readings of such related terms as xian bufan 先餔飯 (strip 8 and tablet 81), xian bushi 先餔食 (strip 76), and houfan 後飯 (tablet 84) depart from those of previous scholars, particularly Yamada Keiji and Zhang Yanchang. These terms, particularly houfan, have been subject to different interpretations by commentators such as Wang Bing 王冰 and Yang Shangshan 楊上善 since the Tang dynasty (618–907 c.e.).

Akahori and Yamada, for example, interpret xian bufan 先餔飯 as 先に飯を餔 or “first eat food” [before taking medicine]. In this regard, their interpretation is at odds with Harper’s understanding of the phrase as it appears in the Wushier bingfang. Their reasoning has to do with a passage from the Warring States corpus, where the adverb xian 先 precedes a verb, as in the following passage from the Han Feizi 韓非子:

仲尼先飯黍而後啗桃。

Confucius first ate broomcorn millet and afterwards ate peaches.

Here, Akahori and Yamada infer that xian should be interpreted in a similar fashion in the Wuwei manuscripts; this is based on their assumption that bufan 餔飯 represents a verb-object construction and that xian means “first” when it precedes a verb. They furthermore read xian bushi 先餔食 (strip 76 and tablet 82A) as equivalent to xian bufan. Somewhat puzzlingly, Akahori and Yamada also interpret houfan 後飯 to mean “before eating,” even though hou is the antonym of xian. This interpretation owes much to Wang Bing’s commentary on the Suwen 素問, where Wang argued that houfan means “before eating.” (Here, Wang Bing’s view directly contradicts that of Yang Shangshan.)

Yet the reading of xian bufan and houfan proposed by Akahori and Yamada is not the best one. Bushi means supper in contemporary works. The chapter on rites and music in the Baihu tong 白虎通 (compiled first century C.E.), for example, describes bushi as the “meal taken at the start of the shaoyin 少陰 period.” The Baihu tong furthermore contrasts bushi with the meals consumed at different times of the day: for example, at the start of the shaoyang 少陽, taiyang 太陽, and taiyin 太陰 periods. Indeed, we find a related usage of the term bu in tablet 83: “Swallow seven pellets at dawn. At suppertime swallow nine pellets. At dusk, swallow 11 pellets” (旦吞七丸, 餔吞九丸, 莫吞十一丸). Furthermore, in other classical works, xian can be understood as “prior to” (xian yu 先於), as in the following passage from the Zuozhuan 左傳: “Prior to the battle, [Ziyu 子玉] dreamt of a river spirit telling him, ‘Give me. Bestow

41. Akahori and Yamada, Shinhatsugen Chūgoku kagakushi shiryō no kenkyū, 368, n. 28.
42. Harper, Early Chinese Medical Literature, 228, n. 4.
upon me the banks of Mei.’” (先战，梦河神谓己曰：畀余，余赐女孟诸之糜 (湄)).

Because of the aforementioned principle of consistency, our reading of xian bushi has ramifications for how we interpret xian bufan. Like Akahori and Yamada, we believe that xian bushi and xian bufan, because of their closeness in form and meaning, should be interpreted similarly (the Shuowen 說文 glosses fan as shi 食). Since we are reading xian bushi as meaning “prior to supper,” it also makes sense to interpret xian bufan as “prior to supper.” Our reading, finally, receives support from Zhang Yanchang, who also treats bushi and bufan as equivalents, as referring to supper (a meal taken later in the day).

Our understanding of xian bufan, finally, has implications for our interpretation of houfan. Pace Akahori and Yamada, we assume that the collection of formulas maintained a minimal level of consistency. If xian is used consistently to mean “prior to,” this implies that its antonym hou 后 must refer to “after.”

武威漢代醫簡簡介與翻譯

楊勇 與董慕達

摘要

1972年，甘肅武威農民發現了一座無名墓葬，于此墓中出土的醫簡包含大量的病方以及部分針灸術。本文簡要介紹了這些醫簡的內容，並首次將之譯成英文。

Keywords: Wuwei, medical strips, pharmacology, Eastern Han dynasty,武威, 醫簡, 藥物學, 東漢,

TRANSLATION

First Category of Strips

Strips 1–2
Blank strips.¹

Strips 3–5
● 治久嗽上氣，喉中如百虫鳴狀，世歳²以上方：茈胡³、桔梗、蜀椒各二分，桂、鳥 ⁴喙 ⁵、薑各一分。凡六物冶合和，丸以白密，大如婴桃。晝夜含三丸，消⁶咽其汁，甚良。⁷

A formula to treat those over thirty years of age who have a persistent cough, qi rising, and something in the throat that sounds like the crying of a hundred insects [wheezing?):

Two fen⁵ each of Hare's ear root [Bupleurum falcatum or Bupleurum scorzoneraefolium]; root of balloon flower [Platyodon grandiflorum]; and Szechuan pepper [Zanthoxylum simulans or Zanthoxylum bungeanum].

One fen each of cassia twigs [Cinnamomum cassia]; rhizome of Chinese or Szechuan aconite [Aconitum chinense or Aconitum carmichaelii]; and ginger root [Zingiber officinale].

¹. The Wuwei editors placed these blank strips at the beginning of the collection, believing that they belonged together.
². According to He Shuangquan, the Wuwei editors transcribed this character incorrectly. On this point, see He Shuangquan, “Wuwei Handai yijian shiwén buzhuang,” 39 [hereafter He Shuangquan].
³. Cihu 茜胡 is a variant of chaihu 柴胡; cf. Akahori and Yamada, Shin hatsugen Chūgoku kagakushō shiryō no kenkyū [hereafter Akahori and Yamada], 365, n. 5; Zhang Yanchang, Wuwei Handai yijian zhujie [hereafter Zhang Yanchang], 113, n. 4.
⁴. Akahori and Yamada (366) treat wuhui 烏喙 as a reference to wutou 鳥頭.
⁵. For the meaning of fen, see Introduction. Although we argue that fen is a weight measure, we do not provide a metric value, since we have yet to find direct evidence that fen was equal to one-quarter liang, as in later periods. On this point, see Nathan Sivin, Chinese Alchemy: Preliminary Studies (Cambridge, MA: Harvard University Press, 1968), 253. For a similar point, see Qiu et al., Zhongguo kexue jishu shi, 338.
⁶. For the meaning of liang, see Introduction.
Pulverize, combine, and mix all six of these substances. With white honey, make into pellets the size of cherries. Hold three pellets in the mouth in a twenty-four hour period. Swallow the resulting juice little by little. Extremely efficacious.

**Strips 6–7**

治傷寒遂風方：付子三分，蜀椒三分，澤瀉五分，烏喙三分，細辛五分，茅五分。凡五物皆治合，方寸匕酒飲，日三飲。7

A formula to treat Cold Damage Disorders and to expel wind:

Szechuan aconite root \([Aconitum carmichaelii]\), 3 fen.

Szechuan pepper, 3 fen.

Water Plantain \([Alisma plantago-aquatica]\), 5 fen.

Rhizome of Chinese or Szechuan aconite, 3 fen.

Chinese wild ginger \([Asarum heterotropoides or Asarum sieboldii]\), 5 fen.

Shu [or Tsangshu or Zedoary; \(Asarum heterotropoides\) or \(Asarum sieboldii\)], 5 fen.

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6. Harper (Early Chinese Medical Literature, 108) renders ye治 as “to smith,” in order to preserve the metallurgical connotations. Yet the early pharmacological use of ye did not always entail the use of heat to pulverize or pestle substances, something recently pointed out by Liu Xinglong et al. in “Chengdu Laoguanshan Hanmu chutu yijian ‘Liushi bingfang’ fangji jixing kaobian,” 10. As they note, ye means crushing to pieces (fensui粉碎). Their view is seconded by Akahori and Yamada (366), as well as Duan Zhen 段禎, “Jianbo yishu ‘ye’ zikao” 簡帛醫書“冶”字考, Gansu zhongyi xueyuan xuebao 甘肃中醫學院學報 2009.12, 52–54. Duan notes that the exact meaning of ye varies between manuscripts. For this reason, we have chosen to translate ye in a more general sense of “pulverize,” leaving open the precise method of rendering pharmacological substances into fine pieces or powder.

7. The Wuwei editors (Wuwei Handai yijian [hereafter Wuwei]), 1; Akahori and Yamada (366, n. 7) and Zhang Yanchang (113) transcribe the character as sui逐, but treat it as an error for zhu逐.

8. *Fuzi*付 is a variant of *fuzi*附子; cf. Akahori and Yamada (366, n. 18) and Zhang Yanchang (114, n. 1).

9. *Zexi*澤蕫 is a variant of *zexie*澤瀉; cf. Wuwei editors (1), Akahori and Yamada (366, n. 20), and Zhang Yanchang (114, n. 2).
Pulverize and combine these six substances. Take one square-inch spoonful (2.76 ml) of the mixture and drink three times daily with wine.

Strips 8–10

治諸癃：石蓮出石，血癃出血，膏癃出膏，蓯癃出蓯，此五癃皆同藥治之。虀、薑、豆

A formula to treat an ailment, causing one to honk like … [3 illegible characters and one untranslatable character] … geese (?):

Two liang [27.6 g] each of these eight substances: Shu [Tsangshu or Zedoary]; Fangfeng [Ledebouriella seseloides or Saposnikovia divaricata]; Chinese wild ginger; ginger; Cassia twigs; Szechuan aconite root; Szechuan pepper; balloon flower.

10. The text specifies five, but this is an obvious (and not unusual) error.
11. On the square-inch spoon, one of several ancient measures for drugs, see Zhao Youchen 趙有臣, “Fangcunbi kao 方寸匕考,” Jiangsu Zhongyi 江蘇中醫 7 (1961), 2. According to Zhang Yanchang (114, n. 6), this should be worth 2.74 ml.
12. Akahori and Yamada (367) transcribe this as sheng 聲. The graph on the photograph is too unclear to verify that this is in fact the case.
13. Fangfeng 方風 is a variant of fangfeng 防風; cf. Wuwei editors (2), Akahori and Yamada (367, n. 26), and Zhang Yanchang (114, n. 2).
14. The meaning of er 耳 is unclear.
16. Akahori and Yamada (367) and the Wuwei editors (2) have interpreted this character as gan 病. We concur with Sivin (Personal Correspondence) that this character was actually written as gu 汲, but was a possible error for gan. According to Baxter (Personal Correspondence), there was no phonetic connection. Still, we agree with the interpretation of the Wuwei editors, who interpret this as a reference to an illness leaving a milky debris.
17. Wuwei (2), Akahori and Yamada (368, n. 35), and Zhang Yanchang (115, n. 2) all treat yue 樂 as a variant of yao 藥.
18. Tusi 兔糸 is a variant of tusi 荼糸; cf. Akahori and Yamada (368); Zhang Yanchang (115, n. 3).
Pulverize, combine, and mix all of these ingredients. Before supper, drink a square-inch spoonful [2.76 ml] of the medicine with millet porridge.

Formula for treating the various forms of retention: for stone retention, it expels stones; for blood retention, it expels blood, for grease retention, it expels grease, and for gan retention, it expels gan. All of these five forms of retention are treated with the same medicine:

Six fen each of Shu [or Tsangshu or Zedoary]; ginger; and Pink [Dianthus superbus or D. chinensis].

Seven fen each of the seeds of Dodder [Cuscuta japonica or C. chinensis] and Talc (soapstone).

One-half fen of Cassia twigs.

Pulverize and combine all six of these substances. With alcohol, take a square-inch spoonful [2.76 ml] six or seven times a day. The illness will immediately be cured, and the stones will come out right away.

Strips 11–12

□□瘀方：乾當歸二分，弓窮20二分，牡丹二分，漏廬21二分，桂二分，蜀椒一分，蜚22一分，凡 1123

19. The text only mentions four forms of retention. This is either a counting error or the scribe neglected to copy the fifth form of retention; on this point, see Akahori and Yamada (368, n. 34).

20. According to Akahori and Yamada (369, n. 44) and Zhang Yanchang (116), gongqiong 弓窮 is a variant of xiongqiong 胸窮.

21. We render loulu 漏廬 as Rhaponticum [Rhaponticum uniflorum], but Akahori and Yamada (369, n. 46) are uncertain about the meaning of this term in ancient times.

22. Some doubts exist as to the translation of meng 蟲. The Wuwei editors (2) gloss meng as beimu 貝母 [Szechuan fritillary or Fritillaria cirrhosa]. Akahori and Yamada (369, n. 47) acknowledge the plausibility of this explanation, based on Qing commentaries and the curative powers associated with beimu. We know that beimu appears in the Bencao jing jizhu, as well as in the Dunhuang manuscripts; for the latter, see Barrett, “Appendix 1,” 369. However, we should note that feimeng 蜂虻 (gadfly) has similar curative properties as beimu in the Bencao jing jizhu, insofar as it also purportedly controls blood stasis. Taking meng as short for feimeng has the advantage of allowing us to read the original text more literally. For feimeng and beimu, see Bencao jing jizhu, 3/118.

23. Although previous scholars regard strips 11 and 12 as part of the same formula, we concur with Liu Jinhua 劉金華 that the contents of the strips are unrelated and should be treated separately. On this point, see Liu Jinhua, “Wuwei Handai yijian jia-odu wuze” 武威漢代醫簡校讀五則, Nanjing zhongyiyao daxue xuebao (社會科學版) 4.4 (December 2003), 234.
□24□□皆冶合，以淳酒25和，飲一方寸匕，日三飲。倍恿26者臥薦[中]27，當出血28。久療29。12

[2 illegible characters] A formula for stasis:

Dried Chinese angelica [Angelica sinensis], 2 fen.

Szechuan lovage [Ligusticum wallichii], 2 fen.

Tree Peony or Moutan [Paeonia suffruticosa], 2 fen.

Rhaponticum [Rhaponticum uniflorum], 2 fen.

Cassia twigs, 2 fen.

Szechuan pepper, 1 fen.

Gadfly (?), 1 fen.

[Indeterminate number of missing characters and 2 illegible characters]. Pulverize and combine all of these ingredients. Drink one square-inch spoonful (2.76 ml) mixed with a fine strongly-flavored alcohol, three times a day. For those with back pain (?), sleep in the

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24. The Wuwei editors only mark two illegible graphs, even though there was room for more text on the strip.

25. Chunjiu 淳酒 is a variant of chunjiu 醇酒, or a fine alcohol with a strong flavor.

26. The Wuwei editors (2) suspect bei 倍 should be understood as bei 背 (back). This reading is plausible based on the context of the formula, which calls for the afflicted to lie in the medicine, as well as the fact that bei 倍 (Schuessler 4–61 < LH *baː; *bəː) can be a phonetic loan for bei 背 (Schuessler 5–32 < LH *pəː). Baxter (Personal Correspondence) confirmed that these two characters, which did not have identical pronunciations, could be used as phonetic loans for each other.

This reading has also been adopted by Akahori and Yamada (369–70). He Shuangquan (39), however, demurs. He argues that the Wuwei editors transcribed the character incorrectly. The character is 倚, which is a graphic variant of yi 倚 (Schuessler 18–1 < LH *ʔiː) and which He Shuangquan claims is a phonetic loan for ji 倚 (regular, standard). Thus, he takes yiyong 倚恿 to mean “extreme or unusual pain.” While Schuessler does not provide a reconstruction for ji, there should be no problem with He Shuangquan’s claim; in general, when two characters had the same phonetic element in the Han dynasty, they had similar pronunciations.

Yong 惡 is a variant of tong 痛. This fact was too obvious to the Wuwei editors to remark upon.

27. The picture is not entirely clear, but we have determined based on the shape of the graph that the character is zhong 中.

28. We are also punctuating the text differently from Akahori and Yamada (369). We cannot make sense of their reading.

29. We cannot verify this graph from the photographs of the strips.
medicinal remedy and [the static] blood will come out. In cases of long-term stasis …

Strip 13

治金創止恿，令創中溫方：曾青一分，長石二分，凡二物皆治合
和，溫酒飲一刀，日三，創立不恿。13

A formula to treat a metal wound, to stop the pain, or to warm the area inside the wound:

Malachite or Laminar, 1 fen.

Sulfate mineral anhydrite, 2 fen.

Pulverize, combine, and mix both of these substances. With warm alcohol, drink one knifeful [0.276 ml] three times a day. The wound will immediately cease to hurt.

Strips 14–15

皆治合和，以方寸匕酒飲，不過，再飲。血立出，不不即大便血。良，禁。•治金創腸出方：冶龍骨14

30. It is unclear why the text ends here, since we would expect there to be more content.

31. Jinchuang 金創 is a variant of jinchuang 金瘡. In this, we follow the Wuwei editors (3).

32. Akahori and Yamada (370, n. 51) gloss cengqing 曾青 as kongqueshi 孔雀石; for the translation of the term, see Sivin (290).

33. This is also called fangshi 方石. Zhang Yanchang (116, n. 3) explains this ingredient as an ore of a sulfate mineral anhydrite.

34. Yi dao一刀 must mean yi dao gui一刀圭 (one knifeful), with the gui being left out; see Wuwei editors (3). The original text specifies that the portion be equal to one knifeful. One knifeful is described by Zhang Yanchang (123, n. 3) as one-tenth of a square-inch spoon.

35. Buguo 不過 is possibly an error for buyu 不愈. According to Baxter (Personal Correspondence), there is no phonetic connection between guo 过 (Schuessler 19–4 < LH *kuaii; *kuai) and yu 愈 (Schuessler 10–23 < LH *jo8).

Another possible reading, proposed by one of the reviewers, is “do not drink more than twice.”

36. Bubu 不不 can be interpreted in different ways. Akahori and Yamada (370, n. 55) argue that the scribe mistakenly transcribed the character twice. This is not the only interpretation, however. We argue that bubu 不不 should be read together, apart from ji dadian xue 即大便血. In this case, we take it as an error for bu chu 不出.
三指[撮] 37, 和以豉 38: 飲之□□禁 39□□□□・治金創內痤 40, 創養 41
不恿，腹張方：黃芩 15

Pulverize, combine, and mix all together. Take one square-inch spoonful and drink with alcohol. If there is no improvement (?), drink another portion and the blood should immediately come out. If it does not, there will be passing of blood in the stool. Efficacious. Proscribed.

A formula for treating metal wounds in which the intestines have spilled out: Pulverize fossil bones, taking a three-finger pinch, mixing it with fermented bean juice and drink [2 illegible characters]… proscribed… [4 illegible characters].

A formula to treat a metal wound with a small internal swelling and for instances where the wound is itchy, does not hurt, and causes abdominal distension:

Baical skullcap [Scutellaria baicalensis] …

Strip 16

治目恿方：以春三月上旬治藥。曾青四兩，𢦛 42 盐三兩，皆冶合，以乳汁和，盛以銅器，以傅 43 目，良。16
A formula to treat eyes in pain: In the first ten-day period of the three months of spring, make a medicine: four liang [55.2 g] of Malachite or Laminar, and three liang [41.4 g] of Turkestan Salt. Pulverize and combine all of these, mixing together with milk and filling a bronze utensil with it. Use this to apply to the eyes. Efficacious.

Strips 17–18

治百病膏藥方：蜀椒一升，付子廿果，皆父。豬肪三斤，煎之五沸，浚去宰。有病者取，溫酒飲之，日三四。與宰搗之，丸大如赤豆。心寒氣，脅下恿，吞五丸，日三吞。

A formula for medicinal paste that treats the many illnesses:

Szechuan pepper, 1 sheng [200 ml].
Szechuan aconite root, 20 heads (ke)

Mince all of these. Fry with three jin [660 g] of pig fat. Boil it five times and strain the liquids to get rid of the sediment. The ill should take a portion as big as a sheep’s dung. With warm alcohol, drink it three to four times a day. The sediment should be beaten and made into a pellet as big as a red bean. In cases where the heart ails from cold qi and there is pain on the sides of the chest, swallow five pellets three times a day.

44. Guo 果 is a variant of ke 顆; cf. Wuwei editors (3), Akahori and Yamada (372, n. 67), Zhang Yanchang (118, n. 1). Here, we break with Akahori and Yamada, who treat ke as the equivalent of banliang 半兩.
45. Fu 父 is short for fuqie 父且 or fuju 咐咀; the scribe must have left out the second character; see Wuwei editors (3), Akahori and Yamada (372, n. 68), and Zhang Yanchang (118, n. 2).
46. Zai 宰 is a variant of zi 泽; cf. Wuwei editors (4), Akahori and Yamada (372, n. 70), and Zhang Yanchang (118, n. 4).
47. According to Liu Jinhua (“Wuwei Handai yijian jiaodu wuze,” 234–35), strips 17 and 18 do not belong together. This is a distinct possibility, but not a foregone conclusion.
48. Shi 矢 (Schuessler 26–19 < LH *śi) is a phonetic loan for shi 屎 (Schuessler 26–20 < LH *śi)⁹.
49. The yu 與 is hard to make sense of. The Wuwei editors (4) propose to treat this as an error for qi 其, as does He Shuangquan (39). There is, however, another possibility, suggested by one of the reviewers, namely, to take yu 與 as a graphic variant or error for ju 擐 (all).
Strips 19–25

檢倬，出箴。●寒氣在胃膈，腹懣□□，□□□□□□病者呼四五乃出箴。次剎49

膝下五寸分間榮，深三分，留箴如炊一升米頃，出箴，名曰三里。次剎項從上下十一椎侠椎兩，剎○

50. Akahori and Yamada transcribe zhen 藏 instead of zhen 籜; we follow here the Wuwei editors (4) and Zhang Yanchang (118) after verifying the photograph of the strip.

51. The Wuwei editors have added a chang 腸 after the second men 懣 on strip 19; Akahori and Yamada (372) and Zhang Yanchang (118) have followed the editors in their versions. However, the photograph is too unclear for us to be confident in this transcription. Akahori and Yamada (372) transcribe the second half of strip 19 differently from the Wuwei editors, Zhang Yanchang, and us. After the second men, Akahori and Yamada render the line as 腸□□□□ without supplying a rationale. We are also uncertain whether the material arranged under strip 19 belongs to a single strip; the photograph indicates the existence of a break.

52. The graph 藜 is a variant of liu 留; see Zhang Yanchang (118).

53. The picture is not entirely clear, but we have determined based on the shape of the graph and context that the character is zhen 籜.

54. Akahori and Yamada (372) transcribe ze 剎则 instead of nai 乃; cf. Wuwei editors (4) and Zhang Yanchang (118). After examining the photograph of the strip, we concluded that the graph is nai 乃.

55. Akahori and Yamada substitute ci 剎 for ci 剎; here, we follow the Wuwei editors (4) and Zhang Yanchang (118) after checking the photograph.

56. Akahori and Yamada (373, n. 77) pointed out that the placement of the acupoint in this strip is different from received parallels in Huangfu Mi, Huangdi zhenjiu jiayi jing (xinjiao ben) 黃帝針灸甲乙經(新校本), ed. Huang Longxiang 黃龍祥 (Beijing: Zhongguo zhongyiyao keji chubanshe, 1990), 3/194. There, the needle is to be placed three cun 寸 instead of five cun below the knees. We can potentially reconcile the discrepancies with reference to the different values of cun (namely, between the Eastern Han and the Jin dynasties). According to the Hanyu da cidian, one cun was worth 2.375 cm in the Eastern Han, whereas it was equivalent to 2.42 cm in the Jin.

57. The Wuwei editors (4) and Zhang Yanchang (118) have left the character as rong 勭. However, Akahori and Yamada (373, n. 75) interpret rong 勭 as referring to ying 营 (an acupoint). We prefer Zhang’s reading since it preserves the original text, which makes sense as.

58. Cong shangxia shi yi zhu 從上下十一椎 is hard to make sense of. The Wuwei editors have not explained the meaning of shangxia 上下. We believe that the characters have been jumbled and thus read the line as: cong xiang shangxia shi yi zhu 從項上下十一椎 (from the neck base [xiangshang] down to the eleventh vertebrae). We thus interpret xiangshang as referring to a specific location. This reading is consistent with the translation offered by Akahori and Yamada (374).

59. Based on parallels in the Huangdi zhenjiu jiayi jing, Akahori and Yamada (372, n. 78) argue a character is missing after liang 偃, namely, bang 僅. The meaning of the line does not change much with this addition.
When the fullness is cured, remove the needle.

If cold qi resides in the gastral cavity and the abdomen is full [indeterminate number of missing characters], leave the needle … the ill should exhale forty to fifty times before removing the needle. Next, needle the rong five cun [2.375 cm] below the knees to the depth of three fen [0.713 cm], leaving the needle long enough to cook about one sheng [200 ml] of rice before removing it. The name of this acupoint is “three li.”

Next, needle the area that reaches from the neck base [xiangshang] down to the eleventh vertebrae: [there], needle the rong that press both sides of the vertebrae to the depth of four fen [.95 cm], leaving the needle long enough for [the ill] to breathe one hundred twenty times before removing it. The name of this [acupoint] is called “Feishu” (lung...
transporter). Three days after the needleling, the afflicted will be cured and will return to normal.

According to the Taboos of the Yellow Emperor for Treating Ills and [Protecting] the Spirit and Hun [Soul] (?): When a person is a year old, the heart system is not to be cauterized; otherwise, he or she will die within 10 days. When a person is two years of age, the abdomen is not to be cauterized; otherwise, he or she will die in 5 days. When a person is three years of age, the back is not to be cauterized; otherwise, he or she will die in 20 days. When a person is four years of age, do not cauterize the head; otherwise, he or she will die within 3 days. When a person is five years of age, do not cauterize the feet; otherwise, he or she will die within 6 days. When a person is six years of age, do not cauterize the hands; otherwise, he or she will die within 2 days. When a person is seven years of age, do not cauterize him or her in the shins; otherwise, he or she will die in 30 days. When a person is eight years of age, do not cauterize the shoulders; otherwise, he or she will die in 9 days. Now, a person …

… is like someone of five years of age. A person between sixty and seventy is like someone six years of age. A person between seventy and eighty is like someone who is seven years of age. A person between eighty and ninety is like someone eight years of age. A person between ninety and one hundred is like someone nine years of age. A person over one hundred years of age cannot receive cauterizing or needleling, because the qi vessels have been entirely cut off. Those who have been cauterized or needleled will die soon after the needleling or cauterizing. Only …

Strip 26

□身不創者，名曰□□□□，扁雍種，上下左右轉□□26

66. The text reads seven days, but this is undoubtedly an error for seven years. Akahori and Yamada (374, n. 81) and Zhang Yanchang (119) also treat the ri 日 in ren sheng qi ri 人生七日 as an error. The ri should be sui 歲 (years).

67. For a previous discussion of these prohibitions in the Wuwei manuscripts, see Donald Harper, “Dunhuang Iatromantic Manuscripts,” in Vivienne Lo and Christopher Cullen, Medieval Chinese Medicine; The Dunhuang Medical Manuscripts (London and New York: RoutledgeCurzon, 2005), 134–64; 151–53.

68. The Wuwei editors (6) do not write chuang 創; cf. Akahori and Yamada (375) and Zhang Yanchang (120). In our view, the character, a graphic variant of chuang 瘡, is clear. But the graphs for zhe 者 and ming 名 are unclear.

Akahori and Yamada (375) transcribe the end of the line differently, replacing the zhuan 轉 with another character and adding 詐. The Wuwei editors (6) do not transcribe any character where Akahori and Yamada write zhuan, leaving only a single blank spot. Our determination of the character is based on the photograph and the
[Indeterminate number of missing characters] … in cases where the ill does not have a skin wound. The name is [4 illegible characters] … swelling all over the body, and the upper and lower, as well as the right and left turn … [1 illegible character]

Strip 27

□者，名曰泉水。先從氣逆，膝以下寒，氣脈不通，先ictJ

[Indeterminate number of missing characters and one untranslatable character] it is referred to as “Spring Waters.” It first follows [indeterminate number of missing characters] … reversal of qi, causing cold below the knees and interruption in the qi vessels. First …

Strip 28

□□出□飲食已驗□ictJ

[Contents too fragmentary to translate]

Strip 29

□[石]鐘乳三分，巴豆一分，二者二分，凡三物皆冶合，丸以蜜，大如實。宿毋食，旦吞三丸。ictJ

larger context, though the right side of the character is too unclear for us to determine this with certainty. This is also the opinion of He Shuangquan (39).

Yongzhong 瘿種 is a variant of yongzhong 瘿腫 (swelling). Also see Akahori and Yamada (375, n. 85) and Zhang Yanchang (121, n. 1). Zhang Yanchang (121) argues that bian 扁 (Schuessler 23–27 < *LH *pen) is a phonetic loan for bian 遁 (Schuessler 23–27 < LH *pen).

69. There is disagreement about the graph before shui 水. Akahori and Yamada (375, n. 87) write bai 白 for the first character and interpret baishui 白水 as a reference to an illness, based on the Zhubing yuanhou lun jiaoshi 諸病源候論校釋, ed. Nanjing zhongyi xueyuan 南京中醫學院 (Beijing: Renmin weisheng chubanshe, 1980), 21/482. However, the Wuwei editors (6) take the graph before shui to be quanshui 泉水. Zhang Yanchang argues that the same name is quan 泉. He Shuangquan argues that the same character is qiong 穷. The photograph of the character suggests that the graph is actually quan 泉.

70. For strip 27, the strip is broken after the character cong 從, so it is unclear whether the contents now transcribed as part of one strip actually belonged together. Akahori and Yamada (375, n. 86) suspect that the contents were not originally part of the same strip.

71. The yin 飲 is not clear from the photograph. The Wuwei editors (6) and Zhang Yanchang (120) transcribe the characters as yinshi 飲食, an attested usage throughout the Neijing corpus. Akahori and Yamada (375) render the characters, however, as yinyin 飲飲.

72. The picture is not entirely clear, but we have determined based on the shape of the graph and context, that the character is shi 石. The Wuwei editors (6), Akahori and Yamada (375), and Zhang Yanchang (120) all transcribe the graph as shi.

73. The meaning of erzhe 二者 is unclear. The context of the passage suggests that there should be another name of a medicinal substance, but erzhe is unattested in the
Stalactite, 3 fen.

Croton [Croton tiglium], one fen.

Erzhe [i.e., an unknown substance], 2 fen.

Pulverize and combine all of these three substances. With honey, make into a pellet as big as the seed of a parasol tree. Do not eat at night. Swallow three pellets at dawn.

Strip 30

□魚葷采，勿見風□，常

飯五□大麥飯，禁房內，勿見火、皇、日、月，六十日知，百日已。30

74. The graph cai 菜 is a variant of cai 菜; cf. Wuwei editors (6); Zhang Yanchang (121, n. 5).

75. The Wuwei editors (6) mark □ in place of the four blank squares we have left for illegible characters, as do Akahori and Yamada (376) and Zhang Yanchang (120).

76. We take zhi 知 to mean “to improve”; see Zhang Yanchang (121).

77. Transcriptions vary. Zhang Yanchang’s transcription departs from that of the Wuwei editors and Akahori and Yamada insofar as he adds four characters after cai 菜 (he does not explain where he found the additional characters): juren guiyi 舉任歸醫. In addition, he adds yi 倚 (which we cannot see based on the photographs), whereas the Wuwei editors and Akahori and Yamada leave a blank for missing text. He finally adds a cha 茶 after the wu 五 so that the line reads: yi chang fan wucha damai fan 倚常飯五茶大麥飯. This appears to have been guesswork on his part, and we cannot verify this transcription based on the photographs.

He Shuangquan transcribes the line differently: 禁用魚葷菜。擇良醫。勿見風。食常飯五茶大麥飯。He added jinyong 禁用 and ze liang yi 擇良醫, which we cannot verify from the photographs. We also cannot verify the graphs for shi 食 and cha 茶.

Akahori and Yamada added a rou 肉 in front of yu 魚. Huang 皇 has been interpreted differently by scholars. The Wuwei editors (6) and Akahori and Yamada (376) regard huang as an error for xing 星. He Shuangquan (39) takes huang 皇 (Schuessler 3–24 < LH *ɣuɑŋ) as a phonetic loan for huang 煌 (Schuessler 3–24 < LH *ɣuɑŋ).

There are also questions about huang 皇. Zhang Yanchang (121) reads huohuang 火皇 or huoxing 火星 as a binome. Akahori and Yamada, however, read huo 火 and huang 皇 as referring to two separate entities. We follow Akahori and Yamada here, since the sentence seems to have been structured around four single characters. We should point out that parallels in the Wushier bingfang support our reading. On this point, see Qiu Xigui, ed., Changsha Mawangdui Hanmu jianbo jicheng, vol. 5, 273 (329–19).
Fish and pungent vegetables. Do not be exposed to wind. One can regularly eat five a meal of barley, but sexual relations are interdicted. Do not be exposed to fire, stars, sun, or moon. In sixty days, you will improve, and in one hundred days, the illness will end.

Strip 31

兩手不到頭，不得臥方：大黃、勺樂31、薑、桂、桔梗、蜀。

A formula for cases where the two hands cannot reach the head and one is unable to sleep: Rhubarb [Rheum spp.]; Peony [Paeonia lactiflora]; ginger; cassia twigs; root of balloon flower; and Szechuan …

Strip 32

飲水，常作赤豆麻洙79服之，世日止。禁豬月80、魚、葷采。

Drink water and regularly prepare a porridge of adzuki beans, taking it for 30 days before stopping. One is interdicted from eating pork, fish, and pungent vegetables.

Strip 33

日病愈。禁酒、葷采、魚、辛。33

The illness will be cured. One is interdicted from alcohol, pungent vegetables, fish, and spicy foodstuffs.

78. Shaoyue 勺樂 is a variant of shaoyao 芍藥.
79. Zhang Yanchang (121) reads chidou mazhu 赤豆麻洙 as chidou mimo 赤豆糜沫.
80. Yue 月 should be understood here as rou 肉, as the two graphs were often undifferentiated in ancient manuscripts. The Wuwei editors (6) transcribe the character as rou 肉 here and below.
81. Qin 亲 is a variant of xin 辛; cf. Wuwei editors (6); Akahori and Yamada (377, n. 100); Zhang Yanchang (121). Whereas the Wuwei editors and Zhang Yanchang read xin as part of a binome (yuxin 魚辛), we follow the translation of Akahori and Yamada, which treats yu and xin as two separate words. Xin 辛 here would refer to spicy foodstuffs.
Strip 34

[Indeterminate number of missing characters] … [in cases where the illness resides] above the diaphragm, it is fitting to purge through vomiting. [In cases where the illness resides] below the diaphragm, it is fitting to purge by [inducing] diarrhea. Efficacious. Proscribed. Do not wantonly transmit this formula.

Strip 35

[Indeterminate number of missing characters] … seven. There will then be diarrhea. Once the diarrhea stops, drink a portion of barley porridge.

Strip 36

[Indeterminate number of missing characters] … five [五].

82. Ge 閰 is a variant of ge 隔; cf. Zhang Yanchang (121, n. 10).

83. Wuwei editors (6), Akahori and Yamada (377, n. 102), and Zhang Yanchang (121) were unsure about the transcription of the two characters dang ou 當歐. However, the photographs are clear to us. Ou 欧 is a variant of ou 嘔; cf. Wuwei editors (6), Zhang Yanchang (121), and Akahori and Yamada (377, n. 102).

84. Wang 忘 is a variant of wang 嘗; cf. Wuwei editors (6), Akahori and Yamada (377, n. 103), and Zhang Yanchang (121, n. 11).

85. Some disagreement exists with respect to the transcription. In contrast to the Wuwei editors and Akahori and Yamada, Zhang Yanchang (121) transcribes the lines as follows: □□當吞七星。當大下。水盡。飲大麥粥 □□□

Zhang does not explain why he transcribes the strip differently from the Wuwei editors, and the current photograph of the strip does not support his interpretation of its contents.

86. The picture is not entirely clear, but we have determined based on the shape of the graph and context that the character is wu 五.

87. The transcriptions provided by Akahori and Yamada (377) and He Shuangquan depart from those of the Wuwei editors (6) and Zhang Yanchang (121). For example, the Wuwei editors and Zhang Yanchang do not transcribe the second wu 五; cf. Wuwei editors (6) and Zhang Yanchang (120). Akahori and Yamada (377), however, do. Akahori and Yamada (378, n. 104) note that they are unsure about whether the contents belonged to a single strip, since the strip is broken before wu 物 and again after jie 皆.

The term jin 禁 is ambiguous here. It could refer to the fact that the formula should not be transmitted to the uninitiated, or it could mean that the medicine should not be administered with particular foods, drinks, or activities.
5 fen [1 illegible character] five [indeterminate number of missing characters]

All of these substances … [indeterminate number of missing characters] with alcohol, drink one-square inch spoonful [2.76 ml] three times a day. Do not drink more than three times. This medicine is interdicted.

88. This is not the only possible reading of the sentence. It is also possible to punctuate the sentence differently: 不過，三飲. The line would then read, “If insufficient, drink three more times.”
Mr. Lu’s green-powder formula to treat [illnesses] by producing sweat and emptying the abdomen:

Ma-Huang [*Ephedra sinica* or *E. equisetina*], 30 fen.

Rhubarb, 15 fen.

89. According to Du Yong 杜勇, Lu Shi 魯氏 refers to a person. *Qing* 青 refers to a green colored powder; see Du Yong 杜勇, “Wuwei Handai yijian 42, 43 jian kaoshi,” 武威漢代醫簡 42·43 簡考釋, *Gansu zongyi* 甘肅中醫 11.5 (1998), 7–8. This is, however, not the only possible translation. The title of the formula could be rendered (more literally) as: “A formula to treat Mr. Lu’s green, to combat illness by producing sweat, and to empty the abdomen.”

90. Scholars have explained *xingjie* 行解 differently. Quoting Wang Hui 王輝, Zhang Yanchang (122, n. 2) glosses the term as “draining internal heat, cold, poison, or perversity through strolling.” Our reading, however, draws upon the *Qianjin yaofang* 千金要方, ed. Liu Qingguo 劉清國 (Beijing: Zhongguo zhongyiyou chubanshe, 1998), 9/168, where *xingjie* is explained as treating a range of illnesses through activities producing sweat. For Wang Hui 王輝, see “Wuwei Handai yijian yinan ciyu qiuyi,” 武威漢代醫簡疑難詞語求義, *Zhonghua yishi zazhi* 中華醫史雜志 1998.2, 122–23.

91. *Jiefu* 解腹 has been glossed in different ways. Following Wang Hui, Zhang Yanchang (122) treats this as “draining the abdomen of perverse and poisonous substances as well as static congelations of *qi* (jieqi 結氣).” Our reading, however, draws upon *Qianjin yaofang*, which contains a virtually identical formula. There, the author proposed using *dahuang* 大黃 to induce diarrhea in order to clear obstructions in the abdomen. On this point, see *Qianjin yaofang*, 9/168.

92. The Wuwei editors (7), Akahori and Yamada (378), and Zhang Yanchang (122) have filled in the blanks with the following characters: *bing ye hehuo yi* 並治合和。以. This is certainly plausible, but the current photograph is too unclear for us to verify the characters on the strip.

93. Akahori and Yamada (378) punctuate the lines differently from us, though their translation on 379 is closer to ours in meaning. They punctuate after the first occurrence of *jie* 解 but do not punctuate after *fang* 方 or, later, after *yu* 儀.

94. Strip 43 ends with a reference to Cold Damage disorders. The Wuwei editors (7) believe that the text is incomplete, so it is uncertain whether the reference to Cold Damage has anything to do with the preceding text. Akahori and Yamada (378), however, hint through their punctuation that the aforementioned formula also treats cases of Cold Damage, too. Too little context, however, survives for us to determine whether the formula supplied on strips 42–43 have anything to do with Cold Damage.
6 fen each of Bark of Magnolia [Magnolia officinalis]; Gypsum; and Shrubby Sophora [Sophora flavescens].

2 fen each of Rhizome of Chinese or Szechuan aconite; and Szechuan aconite root.

All seven of these substances. [5 illegible characters.] Drink one square-inch spoonful [2.76 ml]. Extremely efficacious. This will cure all cases [described above]. For Cold Damage and for expelling winds (?) …

Strips 44–45

治心腹大積，上下行如虫狀，大癥方：班蝥95十枚，地膽96一枚，桂一寸，凡三物皆并44

冶金合和，使病者宿毋食，旦飲藥一刀圭，以肥美97月乞98，十日壹飲藥，如有徵99當出。從10045

A formula to treat a large accumulation in the heart and abdomen, which moves above and below in the shape of a worm and is very painful:

Cantharides, 10 pieces (mei).

Blue-black Beetle, 1 piece (mei).

Bark of cassia, 1 cun [2.375 cm].

Pulverize, mix, and combine all three of these substances. Make sure that the ill does not eat at night but drinks one knifeful [0.276 ml] of the
medicine at dawn. In cases where the [afflicted] is corpulent ... [2 unrecognizable characters.] Drink the medicine once every ten days. [Ailments] like concretion should be expelled.

From ...

**Strips 46–47**

【治伏梁裹膿寒氣腸之外方】：大黃=（黃）芩、勺藥各一兩，消石\(^{101}\)二兩，桂一尺，\(^{46}\)

桑卑肖\(^{102}\)十四枚，虵虫\(^{103}\)三枚，凡七物皆父且，漬以淳酒五升，卒時\(^{104}\)，煮之三\(^{47}\)

A formula to treat cases of *fuliang*\(^{105}\) with pus outside of the stomach and intestines:

One liang [13.8 g] each of Rhubarb; Baical skullcap; and Peony.

Epsom Salts, 2 liang [27.6 g].

Bark of cassia, 1 chi [23.75 cm].

Praying Mantis egg case on mulberry branch, 14 pieces (*mei*).

Wingless cockroach [*Eupolyphaga*], 3 pieces (*mei*).

Mince and then soak all seven of these substances in five *sheng* [1000 ml] of a fine strongly-flavored alcohol for one night and one day. Boil it three (?) ...

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\(^{101}\) Xiaoshi 消石 is a variant of *xiaoshi* 砂石; see Akahori and Yamada (380) and Zhang Yanchang (123). Sivin (277) renders *xiaoshi* as Epsom Salts, whereas Barrett (373) translates the term as saltpeter or potassium nitrate. Since Sivin’s rendering is based on an analysis of a Tang sample, we follow him here.

\(^{102}\) Sangbeixiao 桑卑肖 is another name of *sangpiaoxiao* 桑螵蛸; see Wuwei editors (7), Akahori and Yamada (381), and Zhang Yanchang (123).

\(^{103}\) The *Zhonghua renmin gongheguo yaodian* 中華人民共和國藥典 identifies *zhechong* 墜虫 as *tubie* 土鱉 or Ground Beetle. On this point, see Guojia yaodian weiyuan hui 国家藥典委員會, ed., *Zhonghua renmin gongheguo yaodian, yibu* 中華人民共和國藥典（一部）(Beijing: Huaxue gongye chubanshe, 2015), 15.

\(^{104}\) Zu 卒 is a variant of *zui* 昏, meaning one night and day (24 hours); cf. Wuwei editors (7), Akahori and Yamada (380, n. 126), and Zhang Yanchang (123). Here, our punctuation departs from Akahori and Yamada (380), who punctuate after *sheng* 升. Instead, we follow Zhang Yanchang (123). Zhang’s punctuation makes more sense, since soaking for one day seems more plausible than boiling for a full day.

\(^{105}\) Fuliang 伏梁 is the name of an illness in the *Neijing* and other ancient texts, which is explained differently. For various explanations, see Li Jingwei 李經緯 and Deng Tietao 鄧鐵濤, eds., *Zhongyi dacidian* 中醫大辭典 (Beijing: Renmin weisheng, 1995), 560. There, *fuliang* is explained in three ways: as an accumulation in the heart, a swelling of the waist, and an abscess below the navel.
A formula to get rid of internal [coldness], causing the illness not to return afterwards … [text uninterpretable because of two unknown characters]. Dig a hole in the ground as long as a person, seven chǐ [166.25 cm] in depth and 5 chǐ [118.75 cm] in width. Use the dung of a white sheep, drying it. Place over ten dan [264 kg] of the dung inside the pit, applying fire to the top. Once the sheep’s dung has been completely burned, lay a log horizontally on top of the pit to make a bed (?). Have the ill sleep on top of the pit. Stop when the hot qi is exhausted. The ill should be careful not to go out or be exposed …


106. Ling 令 is a variant of lēng 冷; cf. Wuwei editors (8) and Akahori and Yamada (381, n. 128).

107. Chuan 穿 is a variant of chuān 穿; Wuwei editors (8), Akahori and Yamada (381, n. 129), and Zhang Yanchang (124).

108. Yangshi 羊矢 is a phonetic loan for yangshi 羊屎. (See n. 48 above.)

109. Keng 阝 is a variant form of kēng 坑; cf. Wuwei editors (8) and Zhang Yanchang (124).

110. Cong 從 is a variant of zōng 縱; cf. Zhang Yanchang (124).

111. Our punctuation departs from that of Akahori and Yamada (381) and Zhang Yanchang (124), who punctuate the line as 羊矢盡。索横木阝上，取其臥。 We could not make sense of the grammar of the sentence with this punctuation. To support our reading, it is worth noting two points: first, suō 索 can mean jìn 尽 (to complete or exhaust), and hénɡ 橫 can be used as a verb meaning “to lay horizontally.”

112. The meaning of qu qi wò 取其臥 is unclear.

113. This strikes us as an excessive amount of dung. Another possible reading of dàn 石 is not as a measurement of weight but rather of capacity. According to the Hányǔ da cìdiǎn, one dàn is equal to 10 dòu 斗 (20,000 ml).

114. Dahuang rou 大黃臼 probably refers to dahuang dān 大黃丹 (Big Minium). For this translation, see Sivin (279). However, opinions divide on this subject. Zhang Yanchang quotes Liu Gang 劉綱, who argues that the graph in question can be read as either ròu or dàn, but the substance refers in either case to rhubarb. On this point, see Liu Gang, “Wuwei Handai yijian dahuang kaoshi” 武威漢代醫簡大黃考釋, Zhongyaozai 中藥材 1986.5, 44. Wang Hui (“Wuwei Handai yijian,” 123), in contrast, maintains that the graph certainly refers to the heart of rhubarb. However, Akahori and Yamada (382, n. 131) argue that the character should be read as dàn, because the two substances that follow are minerals. In their view, dahuang dàn refers to qiándàn 鉛丹 (red lead). While we accept this transcription, we believe that the equation of dahuang dàn with qiándàn is speculative.

115. Xiaoshi 消石 is a variant of xiāoshi 藻石; cf. Akahori and Yamada (380) and Zhang Yanchang (123).
A formula to treat a metal wound with internal leakages where the blood does not come out. The medicine uses:

Big Minium, 2 fen.
Malachite or Laminar, 2 fen.
Epsom Salts, 2 fen.
Wingless cockroach, 3 fen.
Mengtou, 2 fen.

Pulverize, combine, and mix all five of these substances. With alcohol, drink one square-inch spoonful (2.76 ml). If insufficient, drink another dose. The blood will immediately come out; if not, it will come out in the stool.

A formula to treat a metal wound and to stop the pain:

Gypsum, 1 fen.
Ginger, 2 fen.
Licorice \([Glycyrrhiza uralensis]\), 1 fen.
Cassia twigs, 1 fen.

Pulverize, combine, and mix all four of these substances. With bitter alcohol, drink one square-inch spoonful (2.76 ml). Drink it twice during

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116. There are different opinions as to the identification of mengtou 蟲頭. The Wuwei editors (8) raise the possibility that meng 蟲 and mengtou 蟲頭 were not the same substance. Zhang Yanchang, in contrast (124, n. 3), argues that mengtou 蟲頭 refers to some kind of chong 蟲 (insect, worm). Akahori and Yamada (382, n. 132) seem to think that mengtou refers to meng 蟲.

117. Yong 憂 is a variant of tong 痛; cf. Wuwei editors (8), Akahori and Yamada (382, n. 133), and Zhang Yanchang (125).

118. Fang cun cun 方寸寸 has been miswritten for fang cun bi 方寸匕; see Wuwei editors (8), Akahori and Yamada (382, n. 136), and Zhang Yanchang (125, n. 2).

119. Cujiang 酢漿 can be interpreted variously. Zhang Yanchang argues that cu means cu 醋. The Wuwei editors (8) argue that cujiang can refer either to cu 醋 (vinegar) or to suanjian 酢酒 (bitter alcohol). We believe that the second reading is superior, because, in the Wuwei corpus, medicine was often administered with alcohol.
the day and once again at night. Extremely efficacious. Do not transmit this formula.

Strip 54

治金腸出方：冶龍骨三指撮，以豉汁飲之，日再，三飲腸自為入，大良，勿傳也。54

A formula for treating metal [wounds] in which the intestines have spilled out:

Pulverize three-finger pinches of fossil bone and drink with fermented bean juice. Drink it twice during the day. After three drinks, the intestines will contract on their own. Very efficacious. Do not transmit.

Strips 55–56

治□□□□□□□潰，醫不能治，禁方其不偽者：半夏、白斂、藥、細辛、烏喙、赤石脂、貸赭、赤豆初生未臥者、矢，凡九物，皆并冶合，其分各等，合和56

To treat [7 illegible graphs] festering … Cases that healers cannot treat. For those who cannot be cured by proscribed formulas:

Panhsia [Pinellia ternata]; Ampelopsis [Ampelopsis japonica]; Peony; Chinese wild ginger; rhizome of Chinese or Szechuan aconite; Halloysite; Hematite; small adzuki beans when they first sprout; and the excrement of silk worms.

120. There are two potential ways of punctuating the line; one in which we punctuate after zai 再, and another one after yin 飲. Akahori and Yamada (383) and Zhang Yanchang (125) punctuate in the latter fashion without explanation. In the former, the line would read “[drink] twice a day, and after 3 times …”. This interpretation would allow us to know how long the drug would be administered before seeing improvement. In the latter interpretation, the line would read: “each day, drink two to three times.” We prefer the former explanation because it is consistent with the information presented in many of the other formulas in the corpus, which states the period of a drug’s administration.

121. The Wuwei editors (9) and Zhang Yanchang (126) leave six blank spaces for illegible characters. Akahori and Yamada (383) leave seven. After examining the photograph of the strip, we concur with the latter opinion.

122. Akahori and Yamada (383) and Zhang Yanchang (125) punctuate this line differently: 醫不能治禁方 (a proscribed formula that healers cannot make). We propose to punctuate after zhi 治 and treat jinfang 禁方 as the subject of the next sentence (which would otherwise be missing).

123. Bailian 白斂 is a variant of bailian 白薊.

124. Daizhe 貨赭 is a variant of daizhe 代赭, which is short for daizheshi 代赭石 (Hematite); cf. Wuwei editors (9) and Zhang Yanchang (126, n. 2).

125. Canshi 矢 is a variant of canshi 蚕屎; see Wuwei editors (9), Akahori and Yamada (383, n. 146), and Zhang Yanchang (126, n. 3).
Pulverize and combine all nine of these substances. The portions will be equal. Combine and mix …

**Strips 57–67**

治千金膏藥方：蜀椒四升、弓窮一升、白茝126一升、付子丗果，凡四物57皆冶、父且，置銅器中，用淳醢127三升漬之，卒時。取膏128豬肪三斤先前129，58

之。先取雞子中黃者置梧130中，撓之三百，取藥成以五分匕一，置雞子中，復59

撓之二百。薄131以塗132其雍者，上空者僞之中央，大如錢。133 藥乾，復

塗之如60

前法，三塗，去其故藥。其毋農134者，行倉；已有農者，潰。毋得力

作，禁食諸采。61

A formula for a medicinal paste worth a thousand coins:

Szechuan pepper, 4 sheng [800 ml].

Szechuan lovage, 1 sheng [200 ml].

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126. *Baizhi 百芷* is a variant of *baizhi 白芷*; see Akahori and Yamada (384, n. 149). The character is miswritten in the transcription of the Wuwei editors (10) and Zhang Yanchang (126).

127. *Xi 醬* is a variant for *xi 責* (deeply sour); cf. Wuwei (10), Akahori and Yamada (385, n. 151), and Zhang Yanchang (127, n. 1).

128. *Fen 豬* is a variant of *fen 豬* (neutered pig); cf. Wuwei (10), Akahori and Yamada (385, n. 151), and Zhang Yanchang (127, n. 2).

129. *Qian 前* is a variant of *jian 煉*; see Wuwei (10), Akahori and Yamada (385, n. 152), and Zhang Yanchang (127, n. 3).

130. *Wu 梧* is possibly an error for *bei 柏*; cf. Wuwei editors (10), Akahori and Yamada (385, n. 153), and Zhang Yanchang (127, n. 4).

131. For the fifth character on strip 60, the Wuwei editors (10) have written *bao 薄*, but Akahori and Yamada (384) transcribe it as *dang 蕤*. We checked the photograph and we think that the graph is the former.

132. The Wuwei editors (10) transcribe this character as *tu 塗*, a variant of *tu 塗*, throughout the manuscripts. We checked the photographs of the strips, and we believe that the latter is the correct transcription.

133. Our punctuation departs from that of Zhang Yanchang (126): 薄以塗其雍者上，空者僞之，中央大如錢。 Instead, we follow Akahori and Yamada (384) here, as their interpretation makes the most sense.

134. *Nong 農* is a variant of *nong 膿*; see Wuwei (10), Akahori and Yamada (385, n. 158), Zhang Yanchang (127, n. 8).
Fragrant Angelica [*Angelica anomala* or *A. dahurica*], 1 sheng [200 ml].

Szechuan aconite root, 30 heads (*ke*).

Pulverize and mince all four of these substances and place inside of a bronze vessel. Use three *sheng* [600 ml] of pure, strong vinegar to soak the ingredients for one night and one day. Take three *jin* [660 g] of fat from a neutered pig, frying it first. Extracting the yolks of the chicken eggs, first place them in a cup and then stir the insides 300 times. Fill one-fifth of a spoonful of the medicine inside of the chicken eggs, stirring them 200 more times. Apply a thin layer of the medicine to the swelling. Leave a hole as big as a coin at the center [of the swelling]. When the medicine has dried, spread it again along the model of the previous layer. Spread three layers and remove the old medicine. Those without pus will immediately be cured, whereas those already with pus will experience festering. Those with swelling should not exert themselves by laboring. Eating all vegetables is proscribed.

Strip 62

□置□上。良甚。創患座皆中之，良。勿傳也。62

[1 illegible character] place [1 illegible character] on the upper part. Extremely efficacious. For all cases in which there is pain or swelling in the wound, [the medicine] will be effective. Efficacious. Do not transmit.

Strips 63–67

逆氣，吞之；喉癡，吞之，摩之；心腹恿，吞之；嗌恿，吞之；血府135恿，吞之，摩之；咽63

乾，摩之；齒恿，塗之；昏衄137，塗之；鼻中生惡138傷，塗之，亦可吞之。皆大如64

135. *Xuefu* 血府 means “uterus”; see Wuwei (10) and Akahori and Yamada (385, n. 163), though Akahori and Yamada are uncertain about this identification. Zhang Yanchang (127, n. 10) does not provide support for his reading, but speculates that *xuefu* refers to the lower abdomen.

136. We note that the physical placement of characters on strips 64–65 does not match those on strips 62–63. The latter has two characters before the first binding cord, whereas the former has just one character. However, we have grouped these strips together because of their similar contents.

137. *Hunnü* 昏衄 refers to an illness that causes the nose to bleed, and the eyes to go black and blind (*mienü* 昏衄); see Wuwei editors (10). Zhang Yanchang (127, n. 11) glosses this as a case of nosebleeds coupled with dizziness.

138. *E* 惡 is a variant of *e* 惡, an illness caused by rotting in the blood and *qi*; see Wuwei (10), Akahori and Yamada (385, n. 165), and Zhang Yanchang (127, n. 12).
Acidum, swallow it, the intestine beneficial proportion, rub it, all, dry and stop. This is forbidden. Another variant of milk surplus 139, 65

For qi reversal, swallow it [i.e., the medicine]. For throat paralysis, swallow it and rub it [into the affected area]. For heart or abdominal pain, swallow it. For throat pain, swallow it. For uterine pain, swallow it and then rub it [into the affected area]. For dry throat, rub it [into the area]. For tooth pain, spread a layer. For mienü [i.e., an affliction in which the nose bleeds and the eyes blacken], spread a layer. For wounds that cause the blood and qi inside of the nose to rot, spread a layer. It can also be swallowed in such cases. For all of these cases, the dose should be as

139. Fu 防 is a variant of fu 婦; Wuwei (10), Akahori and Yamada (385, n. 167), and Zhang Yanchang (127, n. 13). Ruyu 乳餘 is a postpartum illness.
140. Long 龍 is possibly an error for long 聾; see Wuwei (10), Akahori and Yamada (386, n. 169), and Zhang Yanchang (127, n. 14).
141. Hu 縨 is a fabric made of spun yarn; see Wuwei (10) and Zhang Yanchang (127, n. 15).
142. The Wuwei editors (10) were uncertain about whether strips 57–67 fit together and how. They presented two different theories: (1) the strips belonged to the same formula, but there is a missing strip between 61 and 62 (they argue that the contents of these two strips are unrelated); (2) the second theory, which focuses on differences in handwriting and the lack of cohesion between strips, maintains that the strips are out of order. In this view, strips 57–61, 63, 66, and 67 belong to one set, whereas 62, 64, and 65 belong to a second set.

We agree that strip 62 is most likely out of place and does not belong to the formula. But we see no problem of placing 63–67 together, because women’s ailments appear in both strip 63 (uterus) and strip 65 (engorgement of the breasts). Admittedly, it is odd that there are multiple references to prohibitions, which appear throughout this set of strips and not at the end (where they generally appear in the Wuwei corpus), but we note three points in favor of placing strips 65 and 66 together. First, the discussion of engorgement at the end of strip 65 is itself anomalous. The scribe placed this discussion after what should have been the end of the formula, thereby presenting the treatment of engorgement as an afterthought, as an additional condition treated by the same formula. In this way, the inclusion of additional conditions on strip 66 is actually consistent with the pattern observed on the preceding strip (65). Second, our examination of the photograph of strip 66 reveals that the first character is ji 疾, which fits together with the final characters at the end of strip 65 (ruyu 乳餘). Taken together, the three characters 乳餘疾 ruyu ji mean “the condition of engorgement” or “engorgement.” Third, the handwriting and the arrangement of the characters on both strips 65 and 66 match, thereby indicating that the contents belong together.
large as a sour date. One can swallow it little by little. Use as much as
needed to see improvement in the intestines. For all of these illnesses,
rub it in three times, stopping after it has dried. These formulas are all
proscribed. This formula is also effective for women suffering from
engorgement. Swallow it.

For qilong [i.e., deafness], wrap the medicine
with a gauze and place it in the ear canal. Change the dressing once a
day. For metal wounds, spread a layer of the medicine. For headaches
from wind (?),143 spread a layer using a three-finger pinch of the medi-
cine to rub it in [4 illegible characters]. For hernias, swallow it. For cases
where the body generates bad qi, spread it. The medicinal paste is very
efficacious; do not transmit.

Strips 68–71

六日脛中當恿=(恿)至足下，傷膿出，逐服之，卅日知儕。六十日，須
藥144生，音聲雖攛敗能復精。鼻柱145、68

鼻中當脣146，血出147。若膿出，去死月，藥用代盧如148、巴豆各一分，
并合和，以絮裹藥塞鼻，諸息月皆69

出。不出，更飲調中藥=(藥)用亭磨149二分，甘遂二分，大黃一分，
冶合和，以米汁，飲一刀圭，日三四飲，徵出 止。即鼻不利，70

143. The Suwen (Feng lun pian di sishier 風論篇第四十二) explains toutong feng 頭痛
風 as a wind illness affecting the head, in which the face sweats from the influence of a
nefarious wind. See Zhang Yinan 張隱菴, ed., Huangdi neijing suwen jizhu 黃帝內經素
問集註 (Shanghai: Shanghai kexuejishu, 1959), juan 5, “Feng lun” 風論, 164.

144. Xumi 頽眉 is xumei 鬚眉 with mi 眉 (Schuessler 26–39 < LH *mi) being a pho-
netic loan for mei 眉 (Schuessler 27–14 < LH *mi); cf. Wuwei (11), Akahori and Yamada
(387, n. 174), and Zhang Yanchang (128, n. 2).

145. We have punctuated strip 68 differently from Akahori and Yamada (387), who
read the following as belonging to one sentence: 能復精鼻柱. But we could not make
sense of the grammar with this punctuation. Akahori and Yamada also treat the for-
mula on strip 68 as belonging to a different formula from 69–71.

146. The graph 脣 is a variant of fu 腴; see Wuwei (11); cf. Akahori and Yamada (387,
n. 177), and Zhang Yanchang (128, n. 4).

147. Akahori and Yamada punctuate the beginning of strip 69 differently. They treat
fuxue 腴血 as a single compound.

148. The Wuwei editors (11), Akahori and Yamada (387, n. 178), and Zhang Yanchang
(128, n. 5) interpret dailuru 代盧如 as another name of dailiuru 代麗如.

149. The Wuwei editors (11), Akahori and Yamada (388, n. 181) and Zhang (128,
n. 7) interpret tingmo 亭磨 as an error for tingli 蒽歷.
薬用利盧¹⁵⁰ 一本¹⁵¹，亭磨二分，付子一分，早¹⁵² 苢一分，皆并父且，合和，以醇溢漬，卒時。去宰，以汁灌其鼻中。⁷¹

… Six days, pain inside of the shins, which reaches up to the bottom of the feet and where pus comes out of the wound. Take [the medicine] for 30 days and you will be cured. If one takes the medicine for 60 days, the eyebrows and beard should then grow back, and even if the voice is still hoarse, it may be made clear again. The nose pillar and the inside of the nose will rot, and blood will come out. If pus emerges and you wish to expel the dead flesh, the medicine uses spurge [Euphorbia]¹⁵³ from Dai and Croton [Croton tiglium], one fen each. Combine and mix both of them. Using cotton, wrap the medicine to stop up the nose, and the piles in the nose will emerge. If they do not come out, drink a medicine that regulates the belly. The medicine uses:

Woods-whitlow grass [Draba nemorosa or Lepidium apetalum], 2 fen.
Kansui [Euphorbia kansui], 2 fen.
Rhubarb, 1 fen.

Pulverize, combine, and mix. With rice juice, drink one knifeful [0.276 ml] of the medicine three to four times a day. When a bit of the flesh comes out, stop taking the medicine.

If the nose is congested, then use for medicine:

False hellebore [Veratrum nigrum or V. maackii], 1 stalk.
Woods-whitlow grass, 2 fen.
Szechuan aconite root, 1 fen.
Zaojia [Gleditsia sinensis], 1 fen.

Mince, combine, and mix all of these substances. Soak the substances for one night and one day in pure vinegar and then remove the sediment. Use the medicinal juice to irrigate the inside of the nose.

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¹⁵⁰. *Lilu* 利盧 is a phonetic loan for *lilu* 藜蘆; *li 利* (Schuessler 26–24 < LH *li*) is the phonetic loan for *li 藜* (Schuessler 26–24 < LH *lei*); cf. Baxter (Personal Correspondence); Wuwei (11) and Zhang Yanchang (128, n. 9).
¹⁵¹. Akahori and Yamada (383, n. 184) believe that *ben 本* is an error for *fen 分*. However, the line makes sense as is, since *ben* can mean *gen 根*.
¹⁵². *Zao 早* (Schuessler 13–51 < LH *tsouB*) is a phonetic loan for *zao 皂* (Schuessler 13–56 < LH *dzouB*); see Wuwei (11), Akahori and Yamada (388, n. 185), and Zhang Yanchang (128, n. 10). For our translation, see Barrett (373).
¹⁵³. Neither Hu nor Barrett offer a translation of *luru*, so we follow Read, *Chinese Medicinal Plants*, #323, in rendering the term as spurge.
Strip 72
□徵\(^{154}\)當下，從大便出。\(72\)
[Indeterminate number of missing characters] ... The concretion will descend. Afterwards, it will emerge from a bowel movement.

Strip 73
□[病]\(^{155}\)□老瘦者，以人事咸\(^{156}\)之。此藥亦中治毒養，如\(73\)
[The strip is too fragmentary for us to interpret]

Strip 74
□飲食，數[驗]\(^{157}\)；禁，不傳也。\(74\)
[Indeterminate number of missing characters] ... Eat and drink. Repeatedly tested. Proscribed; do not transmit.

Strip 75
□二升□□，復置水一升其中，為東鄉\(^{158}\)造\(^{159}\)，炊以葦薪\(^{160}\)若桑\(75\)
[Indeterminate number of missing characters] ... two sheng [400 ml] [2 illegible characters], then placing one sheng [200 ml] of water inside. Place the medicine in a stove facing east, cooking it together with reed or mulberry.

\(^{154}\) The graph for \textit{zheng} 徵 is not clear from the photographs. \textit{Zheng} may be a variant of \textit{zheng} 徵 (concretion).

\(^{155}\) The Wuwei editors (11) do not transcribe any of the characters before \textit{lao} 老; cf. Zhang Yanchang (128). Akahori and Yamada (389) also transcribe this line differently from the Wuwei editors: they add \textit{chang} 長 before \textit{bing} 病 without explanation. We could not verify the \textit{chang} 長 from the photograph of the strip, but the phonetic element \textit{bing} 丙 for \textit{bing} 病 is clear. Chen Guoqing 陳國清 however identified the \textit{bing} 病 from the strip; see Chen Guoqing 陳國清, “\textit{Wuwei Handai yijian shiwen zai buzheng}” 武威漢代醫簡釋文再補正, \textit{Kao\u{g}u yu wenwu} 考古與文物 1991.3, 91–93; 92.

\(^{156}\) \textit{Xian} 咸 is a variant of \textit{gan} 感; cf. Akahori and Yamada (389, n. 187). Wuwei (11) and Zhang Yanchang (129) transcribe the character as \textit{gan} 感. The photograph of the strip suggests \textit{xian}.

\(^{157}\) The Wuwei editors (11) do not transcribe \textit{yan} 驗; cf. Akahori and Yamada (389). Our review of the photograph suggested that the graph was clear enough. It is also transcribed by Zhang Yanchang (128).

\(^{158}\) \textit{Xiang} 鄉 (Schuessler 3–16 < LH *hiaŋ\()\) is a phonetic loan for \textit{xiang} 向 (Schuessler 3–18 < LH *hiaŋ\); on this point, see Akahori and Yamada (389, n. 190) and Zhang Yanchang (129, n. 3).

\(^{159}\) \textit{Zao} 炊 can mean \textit{zao} 灘; on this point, see Wuwei editors (12), Akahori and Yamada (389, n. 190), and Zhang Yanchang (129, n. 3).

\(^{160}\) Akahori and Yamada (389) punctuate differently, stopping after \textit{weixin} 萬薪. This reading is possible, but we note that \textit{ruo} 若 can mean \textit{huo} 或 (or).
Strip 76

丗相得，丸之，大如吾實，先餔食吞二丸，日再服，藥一。76

… [Indeterminate number of missing characters] … mutually attained (?). Make it into a pellet as big as the seed of a parasol tree. Before supper, swallow two pellets. During that day, take the medicine again. This time, take one.

Strip 77

四兩，消石二兩，人參、方風、細辛各一兩，肥棗五。77

[Indeterminate number of missing characters and 2 illegible characters] …

Alums, 4 liang [55.2 g].
Epsom Salts, 2 liang [27.6 g].
One liang [13.8 g] each of ginseng [Panax ginseng]; Fangfeng; and Chinese wild ginger.
Chinese gymnocladus [Gymnocladus chinensis], five …

Strip 78

… To the right, formulas to treat the many ailments:

Tablets

Tablets 79A–B

治久欬上氣，喉中如百蟲鳴狀，卅歲以上方：茈胡、桔梗、蜀椒各二分，桂、烏喙、薑各一分，凡六物。79A

皆冶合和，丸白蜜，大如嬰桃。晝夜含三丸，稍咽之，甚良。79B

A formula to treat those over thirty years of age who have a persistent cough, qi rising, and something in the throat that sounds like [the crying of a] hundred insects [wheezing]:

161. Wu 吾 is a variant of wu 梧.
162. Fan 梵 is a variant of fan 矸. The character is transcribed neither by the Wuwei editors (11) nor by Akahori and Yamada. It is however transcribed by Zhang Yanchang (129), and it is clear enough from the photograph.
163. Ku 枯 is possibly an error for jie 柑; cf. Wuwei (12) and Zhang Yanchang (130, n. 1).
Two fen each of Hare’s ear root; root of balloon flower; and Szechuan pepper.

One fen each of cassia twigs; rhizome of Chinese or Szechuan aconite; and ginger.

Pulverize, combine, and mix all of these six substances. With white honey, make them into pellets the size of cherries. Hold three pellets in the mouth over a twenty-four-hour period. Swallow the resulting juice little by little. Extremely efficacious.\textsuperscript{164}

**Tablets 80A–80B**

A formula for a decoction to treat a persistent cough, as well as qi reversal and counterflow:

\textsuperscript{164} The formula matches the contents of strips 3–5, with minor variation in language at the end.

\textsuperscript{165} Ziwan 茬菀 is a variant of ziwan 紫菀; cf. Wuwei (13), Akahori and Yamada (391, n. 196), and Zhang Yanchang (130, n. 1). For our translation, see Barrett (373); no translation of the two-character compound is found in Hu.

\textsuperscript{166} There is some question as to whether mengdong 門冬 refers to tianmendong 天門冬 (Chinese asparagus root) or maimendong 麥門冬 (Lily turf). See Wuwei (13), Akahori and Yamada (391, n. 197), and Zhang Yanchang (131, n. 2).

\textsuperscript{167} Dong 東 is an error for dong 冬; cf. Wuwei editors (13), Zhang Yanchang (130, n. 2), and Akahori and Yamada (391, nn. 197–98).

\textsuperscript{168} The meaning of tuowu 業吾 is unclear. Akahori and Yamada (391, n. 199) argue that tuowu refers to kuandong hua 款冬花 (Tussilago flower). Zhang Yanchang (130, n. 4), however, argues that tuowu is another name for lotus seed pod (lianpeng cao 蓮蓬草). The Wuwei editors (13) do not provide a firm answer, but suggest that tuowu refers to something different from kuandong, since the binome follows that substance on the list. Zhang Xiancheng 張顯成 thinks that tuowu is guijiu 鬼臼. On this point, see Zhang Xiancheng, “Tuowu ji guijiu ￣jianbo yishu duanzha” 業吾即鬼臼￣簡帛醫書短劄, Chengdu zhongyi xueyuan xuebao 成都中醫學院學報 1995.1, 18–19.

\textsuperscript{169} The Wuwei editors (12) tentatively transcribe this graph as shu 束; cf. Zhang Yanchang (130). The character is not transcribed by Akahori and Yamada. The current photograph is too blurred for a confident identification.

\textsuperscript{170} Yu 逾 is a variant of yu 愈; cf. Wuwei editors (13) and Zhang Yanchang (131, n. 3).
Aster [*Aster tataricus*], 7 bundles.

Lily-turf [*Ophiopogon japonicus* or *Liriope spicata* or *L. gramifolia*] [or perhaps Chinese asparagus (*Asparagus lucidus* or *asparagus cochinchinensis*)?], 1 sheng [200 ml].

Tussilago [*Tussilago farfara*], 1 sheng [200 ml].

Coltsfoot,171 1 sheng [200 ml].

Gypsum, half sheng [100 ml].

White [1 illegible character], 1 [1 illegible character].

Cassia twigs, 1 chi [23.75 cm].

Honey, ½ sheng [100 ml].

Jujube [*Zizyphus jujuba*], 30 pieces (*mei*).

Panhsia,172 10 pieces (*mei*).

Mince all ten of these substances.

Do not mince the Panhsia. Pour one *dou* [2,000 ml] and six sheng [1,200 ml] of water into a pot, bringing it to a boil six times. Drain and get rid of the sediment. Drink a small cup warm three times a day. If the medicine is used after the night, it should be boiled again. The illness will be cured in three to four days.

Tablet 81

A formula for treating paralysis and swelling in the hand or foot:

**Large-leaved gentian** [*Gentiana macrophylla* or *G. dahurica*], 5 fen.

**Szechuan aconite root**, 1 fen.

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171. Neither Hu nor Bartlett offers a translation of *tuowu* 業吾; on this point, we rely on Read, *Chinese Medicinal Plants*, #49.

172. Hu Shiu-yung has rendered *banxia* in Wades-Giles, so we follow her.

173. *Qinchow* 秦瘳 is a variant of *qinjiao* 秦艽; cf. Wuwei (13), Akahori and Yamada (392, n. 203), and Zhang Yanchang (131, n. 1).

174. Here, we are reading *fan* 飯 to mean *shi* 食; see Introduction.
Pulverize, combine, and mix both of these substances. Before supper, drink one-half of a square-inch spoonful with alcohol three times a day, using recovery as the measure of when the medicine [is to be stopped.]

**Tablets 82A–B**

治久泄腸辟**175**臥血**176**□外裹帶風**177**□□□醫不能治，皆射**178**去方：黃連四分，黃芩、石脂、龍骨、人參、薑、桂各一分，凡七物皆并冶合。丸以蜜，大如彈丸，先餔82A食，以食大湯**179**飲一丸。不知□□□□，腸中□**180**加甘草二分；多血，加桂二分；多農，加石脂二分。□一□□□□□；多□，加黃芩一分。禁鮮魚、豬月。方禁，良。82B

A formula to treat chronic diarrhea, leaking abdomen where there is blood [and pus] letting in the stool (?) [4 illegible characters and 4 more untranslatable characters] … cases of illnesses that healers cannot treat and all refuse to see:

Four fen of Golden Thread [*Coptis chinensis*].

1 fen each of Baical skullcap; Halloysite, fossil bones, ginseng, ginger root, and cassia twigs.

Pulverize and combine all seven of these substances, making pellets as large as crossbow pellets with honey. Before supper, drink one pellet of medicine with congee.

If there is no improvement [4 illegible characters].

If there is [1 illegible character] in the abdomen, add 2 fen of licorice.

If there is a lot of blood, add 2 fen of cassia twigs.

**175.** *Changpi* 腸辟 is a variant of *changpi* 腸澼; cf. Wuwei editors (13) and Akahori and Yamada (392, n. 204). In contrast, Zhang Yanchang (132, n. 2) treats *bi/pi* 臧辟 (Schuessler 8–19 < LH *piek) as a phonetic loan for *bi* 臧 (Schuessler 8–19 < LH *pek), a move that would render the sentence unintelligible.

**176.** *Woxue* 臥血 is hard to interpret. Wuwei (13) and Zhang Yanchang (132, n. 2) speculate that the *wo* 臥 here refers to some form of diarrhea involving the expulsion of pus and blood (*xiali nongxue* 下痢膿血). This reading makes sense in light of the larger context of the formula, a formula treating blood and pus in the diarrhea.

**177.** Diverging transcriptions exist of this line. The Wuwei editors (13) do not transcribe *wai* 外; cf. Akahori and Yamada (392). In addition, the Wuwei editors (13) do not transcribe *daifeng* 帶風 and instead leave two blanks; cf. Akahori and Yamada (392). Zhang Yanchang (131), however, does transcribe *wai* 外, which is admittedly blurred, but not *daifeng* 帶風.

**178.** *She* 射 is a variant of *xie* 謝 (to decline).

**179.** *Shidatang* 食大湯 refers to a soup made of rice (*mitang* 米湯); on this point, see Zhang Yanchang (132, n. 6).

**180.** The Wuwei editors surmise that the illegible character must be *yong* 愚.
If there is a lot of pus, then add 2 fen of Halloysite … [7 illegible characters and 2 untranslatable characters] … add one fen of Baical skullcap. One is prohibited from eating fresh fish or pork. Proscribed formula; efficacious.

Tablets 83A–83B

樊

石二分半 

牡麹

三分 

禹餘量

四分 

黃芩七分, 

糵米

三分 

厚朴三分 

凡六物皆冶合和 

丸以白蜜 

丸大如吾實。旦吞七丸 

餔吞九丸, 83A

莫吞十一丸。服藥十日知, 小便數多, 卅日僕。公孫君方。83B

2½ fen of Kalinite.
3 fen of Mu yeast (?)
4 fen of Limonitum (Clay Ironstone).
7 fen of Baical skullcap.
3 fen of Rice sprout [Oryza sativa].
3 fen of Magnolia Bark.

Pulverize, combine, and mix together all six of these substances. Make into pellets with white honey. The pellets should be as large as a parasol.
seed. Swallow seven pellets at dawn. At suppertime, swallow nine pellets. At dusk, swallow 11 pellets. After taking the medicine for ten days, the ill should improve. The urine should be profuse. In twenty days, he or she should be cured. A formula of Master Gongsun.

Tablets 84A–B

白水侯所奏治男子有七疾方：何謂七疾？一曰陰寒，二曰陰痿，三曰苦衰，四曰精失，五曰精少，六曰橐188下養濕，□不卒，名曰七疾。令人陰□小，橐下養濕，□之189，黃汁出。□遠190行，小便時難。溺□赤黃泔白，□便赤膿，餘酒□苦惡。191膝脛寒，手足熱且煩，臥不安牀192，溺目泣出□下常悪，溫=（溫）下溜193，旁194急195，84A時196蘇□□□□陰□有病如此，名為少餓197。何巳□□□尚□□伏下□焉198，巳汻□孫□內餓，除199□其坐則應中□，人不200見□□□驚□□酒大樂，久坐不起，□便不□，有病如此，終古毋子。治之方：活

188. Tuo 棨 refers to yinnang 陰囊 (scrotum); see Wuwei (15), Akahori and Yamada (395, n. 226), and Zhang Yanchang (133, n. 2).
189. Some disagreements exist as to how to transcribe the character before zhi 之. The Wuwei editors (15) say ying 盈, but Akahori and Yamada (394) write sao 搔 and Zhang Yanchang marks tan 灑 (133). The photograph is too unclear for us to determine which is correct.
190. There is yuan 遠 before xing 行, which Wuwei (15) and Akahori and Yamada omit (394).
191. We are punctuating this line differently from Akahori and Yamada (394), whose transcription reads: □行小便時難溺。□赤黃泔白□便。赤膿餘。酒□苦惡。
192. We are punctuating this line differently from Akahori and Yamada (394), whose transcription reads: 手足熱。且煩臥不安 牀。
193. Different interpretations of liu 溜 also exist. The Wuwei editors take it as a reference to a vessel (15), a point on which Akahori and Yamada demur (395, n. 229). Liu can also be used as a verb meaning “to flow.” We prefer this reading, since it is consistent with the reference to the bladder, which follows.
194. Pang 旁 is a variant of pang 畿; cf. Wuwei (15), Akahori and Yamada (395, n. 230), and Zhang Yanchang (133, n. 8).
195. We are punctuating the line differently from Akahori and Yamada, and Zhang Yanchang. Akahori and Yamada punctuate the line: □下常悪温溫。下溜旁急。 We are reading wenwen 溫溫 (“gently” or “slowly”) as an adverb modifying xia 下.
196. The Wuwei editors do not transcribe shi 侍; cf. Akahori and Yamada (394), but Zhang Yanchang (133) does. The graph, however, is clear from the photograph.
197. According to the Wuwei editors (15) and Akahori and Yamada (394), shang 傷 is a variant of shang 傷. However, Zhang Yanchang (134, n. 1) renders the same character as yang 瘡.
198. The Wuwei editors (15) do not transcribe yan 病; cf. Akahori and Yamada (394) and Zhang Yanchang (244). The graph, however, is clear from the photograph.
199. The Wuwei editors (15), Akahori and Yamada (394), and Zhang Yanchang (133) omit the chu 除 after neishang 內餓. We checked the photograph, and the graph for chu is clear.
200. The Wuwei editors and Yamada transcribe 84B differently, omitting ren bu 人不 before jian 見. Akahori and Yamada also omit bu 不 after bian 便, which follows.
A formula to treat the seven afflictions of men submitted by the Lord of White Waters. What is meant by the seven afflictions? The first is called coldness in the privates; the second is called impotence; the third is called “bitter decline” [i.e., exact meaning unclear]; the fourth is called the loss of essence. The fifth is called small amounts of essence. The sixth is called itchiness and moistness at the base of the scrotum. [Indeterminate number of missing characters] … no conclusion [i.e., in ejaculating?]. These are called the seven afflictions. This condition causes the privates [illegible character] small … the base of the scrotum to be itchy and moist … [1 illegible character and 1 untranslatable character], a yellow juice comes out … [Indeterminate number of missing characters and 2 untranslatable characters] … Sometimes, there is difficulty in urinating. Urine … [illegible character] red and yellow milky white. When [illegible character] red pus … [Indeterminate number of missing characters and 4 untranslatable characters] … The knees and shins are cold, and the feet and hands are hot and irritated. One does not get rest from sleep. The eyes are watery with tears coming out … [Indeterminate number of missing characters] … there will constantly be pain below. Slowly, water will flow, but the bladder will [leak] frequently.

At times, there will be relief … [5 illegible characters, one untranslatable character, and indeterminate number of missing characters] … In cases of illness like these, the name is “small damage.” [Many untranslatable and illegible characters, as well as an indeterminate number of missing characters.] … taking great pleasure in alcohol. Sitting for periods of time without rising … [1 illegible character, 2 untranslatable characters, and indeterminate number of missing characters] … in cases of illness like this, the person is ultimately childless. A formula to treat [these conditions]:

Roots of Trichosanthes \([Trichosanthes kirilowii]\), 10 fen.
Chinese or Szechuan aconite \([Aconite chinense\) or \(A. carmichaelii]\), 5 fen.
Achyranthes, 4 fen.
Japanese teasel \([Dipsacus japonicus]\), 4 fen.
[2 illegible characters], 5 fen.
Sweetflag or Calamus \([Acorus calamus]\), 2 fen.

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201. \textit{Huolou} 活樓 is a variant of gualou 槲樓 or gualougen 槲樓根; see Akahori and Yamada (396) and Zhang Yanchang (134, n. 2).
202. For the meaning of \textit{houfan} 後飯, see Introduction.
Pulverize, combine, and mix all six of these substances, taking them in a square-inch spoon after food. The medicine will cure even those who have been long ill. In thirty days, they will recover; in one hundred days, they will be without suffering. A formula of General Geng of Jianwei. Efficacious. Proscribed. Do not transmit even for 1,000 coins.

Tablets 85A–85B

濕而養，黃汁出，辛惠；五曰小便有餘；六曰茎中惠，如林狀；七曰精自出，空居獨怒，臨事不起=（起）死玉門中，意常欲得婦人。日甚者，更而莒輕重，時腹中惠，下弱旁光，此病名曰[內傷]。

footnote continued on next page
3 分

牛膝、續[斷]、[方]

風、遠志、杜仲、赤石脂、山茱臾

月從容

天雄、署與

□□

五物皆并治□

[Indeterminate number of missing characters …] One fen of human hair … [5 illegible characters interspersed with 7 untranslatable characters] … Pulverize and combine all eight [2 illegible characters], drinking a square inch-spoonful [2.76 ml] with warm alcohol. Drink three times a day. A formula of Master Lü Gong. In cases where there is pus, one can apply acupuncture to oneself … [8 illegible characters] … comes out and there is blood, which will not become pus (?).

A formula to treat [illnesses] submitted by the lords of Donghai and White Waters (?): 218 In treating male ailments, there are seven afflictions and seven injuries. What are the seven injuries? The first refers to the privates being cold; the second is impotence; the third refers to decline in the privates; the fourth to moistness and itchiness at the base of the scrotum with yellow juice coming out with extreme pain. The fifth refers to excessive urination; the sixth refers to pain in the penis like lin [i.e., an ailment causing the urine to be yellow-red in color]. The seventh refers to spontaneous ejaculation and the ill living in isolation but nevertheless getting excited. With respect to matters [of the bedroom], there is no erection. During an erection, there is “death” [i.e., lost or premature erection] within the “gates of life” [i.e., the vagina]. Thoughts are constantly

梗，which he renders as zhizhi 治之. While we concur that there should be two characters there, we cannot verify that they are, in fact, zhizhi 治之, because the picture is unclear.

211. Duan 斷 and fang 方 are unclear. But we can discern the shape of these characters.

212. Shanzhuyu 山茱臾 is a variant of shanzhuyu 山茱萸.

213. Yuecongrong 月從容 is a variant of roucongrong 肉蓯蓉; see Wuwei editors (16) and Zhang Yanchang (136, n. 9).

214. Shuyu 薯與 is a variant of shuyu 薯薑; cf. Zhang Yanchang (135, n. 10).

215. She 蛇 is a variant of she 蛇; cf. Wuwei editors (16). Akahori and Yamada (397, n. 252) and Zhang Yanchang (135, n. 11) believe this means shechuangzi 蛇床子 (Cnidium or Cnidium monnieri).

216. The Wuwei editors (15) tentatively identify these two graphs as fan shi 凡十; cf. Akahori and Yamada (397) and Zhang Yanchang (134). But the graphs are too blurred for us to be confident in this identification.

217. The Wuwei editors (15) tentatively identify this graph as he 合; cf. Akahori and Yamada (397) and Zhang Yanchang (134). But the graphs are too blurred for a confident identification.

218. The punctuation of this line is uncertain. One reviewer suggested punctuating the line differently, removing the break between Donghai 東海 and Baishui 白水. The line would thus read, “the Lord of White Waters in Donghai.” It is difficult to adjudicate between these two readings. Baishui was a toponym, one that referred to multiple locations in Han China (in Guanghan 廣漢 and Nanyang 南陽). None of these locations, however, can be pinpointed to Donghai commandery, though this may simply reflect the limitations of our knowledge of ancient geography.
directed at obtaining women, which increase by day [5 untranslatable
characters] … Sometimes, there is pain in the abdomen; below there is
urine leaking from the bladder. This illness is called “internal injury.” [2
illegible characters …]

Balloon flower, 10 fen.

4 fen each of Achyranthes; Japanese teasel; Fangfeng; Chinese senega
\[Polygala sibirica or P. tenuifolia\]; Eucommia \[Eucommia ulmoides\]; Hal-
loysite; Asiatic cornelian cherry \[Cornus officinalis\]; and Arbor-vitae
\[Thuja orientalis or Biota orientalis\].

As for Mongolian Broomrape \[Cistanche salsa or C. desertica\]; Chinese or
Szechuan aconite; yam \[Dioscorea opposita\];\[219\] Cnidium \[Cnidium mon-
nieri\] … [Indeterminate number of missing characters and 2 illegible
characters] … all five of the substances, pulverize [1 illegible charac-
ter and an indeterminate number of missing characters] …

Tablets 86A–86B

\[\begin{array}{l}
\text{大風} 86A 86B \text{方: 雄黃、丹沙、礜石、茲石、玄石}\[222\]、消石 86B 86B
\text{之長}\[223\] 三重盛藥 三石 86B 86B
\text{三日}\[224\] 86B 86B
\end{array}\]

219. Our translation draws from Barrett (372).
220. The Wuwei editors (16) transcribe the two characters we have marked blank as
e bing 恶 病 (see n. 138 above). These two characters are illegible in the photographs
of the strips.
221. Dafeng 大風 refers to mafengbing 麻風病 (leprosy); see Wuwei (16) and Zhang
Yanchang (135, n. 1).
222. What zishi 茲石 and xuanshi 玄石 refer to is unclear; see Akahori and Yamada
(398, n. 258). Zhang Yanchang (135, nn. 4–5) mentions that both refer to cishi 磁石. He
thinks there must be a mistake, because one would not expect to find the same sub-
stance mentioned twice in a row in a single formula.
223. The graph is not entirely clear, but we have determined based on the form of
the character that it is dao 搗; the Wuwei editors (16) also tentatively came to similar
conclusions; cf. Akahori and Yamada (398) and Zhang Yanchang (135).
224. Some disagreement exists as to how to transcribe this character 搗. The Wuwei
editors (16) and Zhang Yanchang (135, n. 6) regard this as si 斯. Akahori and Yamada
(399, n. 259) however disagree.
225. The Wuwei editors (16) do not transcribe the xia 下; cf. Akahori and Yamada
(398) and Zhang Yanchang (135). The photograph of the graph is admittedly blurred.
We however have determined that the graph is xia 下 based on its shape.
226. Lu 落 is a variant of luo 落; cf. Wuwei (16), Akahori and Yamada (398, n. 260),
and Zhang Yanchang (136, n. 3).
227. Akahori and Yamada (399, n. 261) treat zhe 折 as a graphic variant of shi 死.
However, we disagree, since the line makes sense as it is currently written.
Indeterminate number of missing characters and 2 illegible characters].

A formula for leprosy.

Realgar or Red arsenic sulphide; Cinnabar; Arsenolite; 228 [indeterminate number of missing characters]; Cishi (?); Xuanshi, Epsom Salts; [indeterminate number of missing characters] ... long ... [indeterminate number of missing characters], one liang [13.8 g]. Ginseng ... [indeterminate number of missing characters] ... beat each of these separately ... [an indeterminate number of missing characters, as well as many untranslatable characters on 86A and 86B] ... pork, fish, and spicy [vegetables]. In 30 days, they will improve; in 60 days his or her condition will be cured. [Indeterminate number of missing characters];

Although the [hair] has fallen out, it will grow back again ... [Indeterminate number of missing characters] ... Although a person has broken [a limb], he or she will be able to recover, and although the person is numb, he or she will be able to feel again.

Tablets 87A–87B

治加 229 及久創 230 及馬膏方：取陳駱蘇 231 一升，付子廿枚，蜀椒一升，乾當歸二兩，皆父且之。以駱蘇煎之，三沸，藥取以傅之，良甚。治人卒 233 疮方：治赤石脂，以寒水和，87A

228. For this translation, see Sivin (294).
229. Jia 加 is a graphic variant of jia 疤; cf. Wuwei editors (17), Akahori and Yamada (399, n. 263), and Zhang Yanchang (136, n. 1).
230. According to the Wuwei editors (17), Akahori and Yamada (399, n. 264), and Zhang Yanchang (137, n. 2), jiuchuang 久創 is a variant of jiuchuang 灭瘡. While we concur with them about the second character (see above), we do not feel that the first character needs to be substituted. The line makes sense as is.
231. He Shuangquan (39) transcribes chen 陳, whereas the Wuwei editors (17), Akahori and Yamada (399), and Zhang Yanchang (136) treat this as an illegible character. We checked the photograph and concur with He Shuangquan that the character should be written as chen.
232. Previous scholars have interpreted luosu 駱蘇 as a reference to camel butter. They reason that luo 駱 means camel. They furthermore note that su 蘇 is a variant of su 蘇; cf. Wuwei editors (17), Akahori and Yamada (399, n. 266), and Zhang Yanchang (137, n. 4). We should add that while it is possible to make butter from camel milk, this practice is not attested in the received tradition, quite unlike the milk from other mammals. There is moreover another equally plausible interpretation of luosu: namely, to take luo 駱 (Schuessler 2–1 < LH *lɑk) as a variant of lao 醤 (Schuessler 2–1 < LH *luk). The compound would thus be laosu (駱蘇, 骆酥), a cheese product attested in received texts from Six Dynasties to Qing.
233. Zu 卒 is a variant of cu 殺; cf. Wuwei editors (17) and Zhang Yanchang (137, n. 6).
A formula to treat scabs, long-term external wounds, and saddle sores (?):

Take aged camel butter (?), one sheng [200 ml].

Szechuan aconite root, 20 pieces (mei).

Szechuan pepper, 1 sheng [200 ml].

Dried Chinese angelica, 2 liang [27.6 g].

Mince all of these.

Use the camel butter to fry the substances. Bring the mixture to boil three times. Take the medicine out and apply it. Extremely efficacious.

A formula to treat a person with violent abscesses that erupt suddenly. Pulverize Halloysite with cold water to mix. Spread on the abscess until cured. Efficacious. A formula to treat a dog-bite wound that is painful: roast Chinese Wolfsbane [Euphorbia fischeriana], pulverizing and applying it to the wound. If the wound is dry, mix [the medicine] with paste to apply it. A formula to treat burns from hot water, fire, and metal: roast [1 illegible character and 1 untranslatable character]. Pulverize and apply it. Extremely efficacious.

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234. *Fan* 燨 (Schuessler 24–51 < LH *buun*) is a phonetic loan for *fan* 燉 (Schuessler 24–51 < LH *buun*). Here, we are following Akahori and Yamada (400, n. 270); for a different view, see Wuwei (17) and Zhang Yanchang (137, n. 8), as they gloss *fan* to mean *daosui* 搗碎 (to break into pieces). However, we could not find any evidence for this reading.

235. *Shang* 湯 is a variant of *tang* 湯; cf. Wuwei editors (17), Akahori and Yamada (400, n. 272), and Zhang Yanchang (137, n. 9).

236. *Lian* 凍 is a variant of *lian* 煉. The phrase *tanghuolian* 湯火煉 is difficult to understand. The Wuwei editors (17) take this as a reference to a burn from hot water. Akahori and Yamada (400, n. 272) understand this as a burn produced through hot water or fire. We, however, read this as a burn produced through hot water, fire, or hot metals (this reflects the fact that the character on the strip is a variant for the verb to smelt iron).

237. Here, our reading follows from the punctuation proposed by Akahori and Yamada (399), and Zhang Yanchang (136). This is not the only possible reading of the line. An alternative proposed by a reviewer reads as follows: “治以傅之創。乾者，和以膏傅之” (“pulverize and spread the medicine over the wound. If the medicine dries out, mix with paste to apply it”). The practice of mixing paste to medicine for reuse is attested in the Mawangdui corpus. For an example (which is worded differently), see Qiu ed., *Changsha Mawangdui Hanmu jianbo jicheng*, “Wushier bingfang,” 271 (319–09); Harper, *Early Chinese Medical Literature*, 281. While plausible, we prefer the other punctuation because it supplies an explicit subject (*chuang* 創 or wound) for the second sentence.
**Tablets 88A–88B**

治邚人膏藥方：[樓] 238 三升，當歸十分，白茝四分，付子卅枚，甘草七分，弓大𝙉 239 十分，藁草 240 二束，凡七物以肪膊 241 高 242，舍之。**88A**

治邚人膏藥方：[樓] 243 三升，甘草七分，付子卅枚，藁草二束，弓大 снижен 244 十枚，白茝四分，當歸十分，凡七物以肪膊高之。之之口，凡六物合後 曰 **88B**

A formula for a medicinal paste to treat women:

[Unknown quantity], 3 sheng [600 ml].

Chinese Angelica, 10 fen.

Fragrant Angelica, 4 fen.

Szechuan aconite root, 30 pieces (mei).

Licorice, 7 fen.

[3 untranslatable characters, including 1 non-standard graph], 10 fen.

Chinese lovage [*Ligusticum sinense* or *L. jeholense*], 2 bundles.

All seven of these substances should be paired with pig fat to make a paste. Place it.

238. We were unable to make out the character preceding sansheng 三升, which the Wuwei editors (17) and Zhang Yanchang (137, n. 2) transcribe as lou 樓 (and which they treat as short for gualou 桔樓 or *Trichosanthes* [*Trichosanthes kirilowii*]. This is based on the duplicated text below, where the character is clearer, so we include the graph in brackets here. Still, we do not have enough context to make a firm identification of the pharmacological substance.

239. The meaning of the three characters gongda-X 弓大郄 is unknown; see Wuwei (17), Akahori and Yamada (401, n. 273), and Zhang Yanchang (137, n. 3).

240. *Gaocao* 桔草 is a variant of *gaoben* 藁本; cf. Wuwei editors (17), Akahori and Yamada (401, n. 274), and Zhang Yanchang (137, n. 5).

241. With respect to fenbo 脂膊, Zhang Lijun 張麗君 takes the fen 脛 as a phonetic loan for fang 脛. Zhang also argues that bo 肢 refers to minced or sliced meat. As such, fangbo 脛膊 means pig fat (*zhurou zhifang* 豬肉脂肪), which makes sense since the substance was used in the formula to make a spreadable paste. See Zhang Lijun 張麗君, “Fenbo kaoshi” 脛膊考釋, *Gu Hanyu yanjiu* 古漢語研究 1995.1: 65.

While we agree with Zhang’s interpretation because of the larger context of the formula, we disagree with her reasoning. According to Baxter, fen 脡 (Schuessler 33–30 < LH *pan*) and fang 脛 (Baxter < LH *buaj*) were not phonetic loans for each other. Consequently, we believe that the scribe probably mistook fen 脡 for fang 脡, due to graphic similarity.

242. *Gao* 高 is probably an error for *gao* 壽; see Wuwei (17), Akahori and Yamada (401), and Zhang Yanchang (138, n. 7).

243. The Wuwei editors (17) transcribe this character as lou 樓. While the graph is not entirely clear, we have transcribed it in this way due to the shape of the character.
A formula for a medicinal paste to treat women:

[Unknown quantity], 3 \textit{sheng} [600 ml].

Licorice, 7 \textit{fen}.

Szechuan aconite root, 30 pieces (\textit{mei}).

Chinese lovage, 2 bundles.

[3 untranslatable characters, including one non-standard graph], 10 pieces (\textit{mei}).

Fragrant Angelica, 4 \textit{fen}.

Chinese Angelica, 10 \textit{fen}.

All seven of these substances should be paired with pig fat to make a paste. [8 untranslatable characters and 1 illegible character] 244

Tablets 89A–89B

百病膏藥方：蜀椒四升，白茝一升，弓窮一升，付子世果，凡四物父且，漬以淳\textit{三升}，\textit{□□□三斤}，先\textit{□□□□} 89A

枚，煎藥\textit{□□□□□□浚去宰} 89B

A formula for medicinal paste for the many illnesses:

Szechuan pepper, 4 \textit{sheng} [800 ml].

Fragrant Angelica, 1 \textit{sheng} [200 ml].

Szechuan lovage, 1 \textit{sheng} [200 ml].

Szechuan aconite root, 30 heads (\textit{ke}).

Mince and soak all four of these substances with 3 \textit{sheng} [600 ml] of pure, strong vinegar; strain [3 illegible characters] … 3 \textit{jin} [660 g]; first (?) [4 illegible characters] … pieces (\textit{mei}); decoct the medicine [6 illegible characters], straining and getting rid of the sediment …

Tablets 90A–90B

五辰、辛不可始久刾，飲藥必死。甲寅、乙卯不可久刾，不出旬，死。五辰不可飲藥，病者日益加□ 245

90A

}\textit{□}

244. We are puzzled by the final text (\textit{zhizhi} … \textit{hou yue} 之之 … 後曰). The Wuwei editors (17) and Zhang Yanchang (138, n. 8) speculate that this portion of the text bears no relation to the formula that precedes it. Akahori and Yamada (400) transcribe the final character as \textit{ri} 令.

245. We could not make out the last character (after \textit{jia} 加) on 90A from the photographs, even though the Wuwei editors (18), Akahori and Yamada (401), and Zhang Yanchang (138) all transcribe it as \textit{shen} 深.
On the five *chen* and *xin* days, one cannot begin to cauterize or needle; if one drinks medicine, one will certainly die. On *jiayin* and *yimao* days, one cannot cauterize or needle, otherwise one will die within the next 10 days. On the five *chen* days, one cannot drink medicine, otherwise the illness will become increasingly [1 illegible character] … each day. Without [1 illegible character]; is proscribed. On new moons and dark nights, as well as on *jia* and *wu* days, one cannot start to cauterize … [4 illegible characters]. On the sixth, sixteenth, eighteenth, and twenty-second days of each month, one cannot cauterize or needle. If one sees blood, one must desist. [1 illegible character.]

Tablets 91A–91B

牛膝半斤，直249五十；卑□250半斤，直□五；朱臾251二升半，廿五；方凰半斤，百；慈石252一斤半，百卅；席虫半斤，廿五；小椒一升半，五十；山朱臾二升半，直五十；黄芩一升半，直七十 91A

黃連半斤，直百；□□二斤，直廿七，子威取；河菆半斤，直七十五；續斷一斤，百，子威取；□□□取藥，凡直九百廿七 91B

246. The Wuwei editors (18), Akahori and Yamada (401), and Zhang Yanchang (138) omit *jiu* 久 after *shi* 始. They also omit *ren* 人 before *yue* 月. However, the character for *jiu* is clear from the photographs. The Wuwei editors (18) and Zhang Yanchang (138) disagree about how many illegible characters follow *shi jiu* 始久 on 90B, but we count four. Akahori and Yamada (400) add six illegible characters, omitting both *jiu* 久 and *ren* 人.

*Renyue* 人月 should be interpreted as *ruyue* 入月 (each month). The phrase occurs in the *Qianjin yifang* (28/834).

247. *Kejiu* 可久 appears twice in a row on this strip, and the second occurrence is most likely redundant.

248. The Wuwei editors (18) put *zhi* 止 in brackets, suggesting their uncertainty about this graph. We have confirmed from the photographs that this character is in fact correct.

249. *Zhi* 直 is a graphic variant of *zhi* 值; cf. Akahori and Yamada (402, n. 279) and Zhang Yanchang (139, n. 1).

250. *Bei* 卑 is followed by a character that is partially unclear. Our inspection of the photograph suggests that it is *xiao* 小, which means *sangpiaoxiao* 桑螵蛸 (see above). The Wuwei editors (19), Akahori and Yamada (402), and Zhang Yanchang (139) believe the worth of *sangpiaoxiao* 桑螵蛸 is twenty-five (*nianwu* 廿五); however, we cannot verify the character *nian* 廿 from the photograph. Also, the totals given (927) do not add up if the missing character is just *nian* (meaning 20) as it would be 100 short.

251. *Zhuyu* 朱臾 is a variant of *shanzhuyu* 山茱萸 or *zhuyu* 茱萸; see Akahori and Yamada (402, n. 281).

252. We read these characters as *cishi* 磁石. But Zhang Yanchang (139, n. 4) proposes that *shi* 石 (Schuessler 2–17 < LH *džak*) is a phonetic loan for *shi* 實 (Schuessler 29–18 < LH *zit* [or džit?]). According to Baxter (Personal Correspondence), Zhang’s reading is implausible on phonological grounds. Zhang furthermore substitutes *ci* 慈 for *ci* 磊, which is plausible, as the two characters were probably variants of each other.
Achyranthes, half a jin [110 g], worth 50.

[1 illegible character, probably, “praying Mantis egg case on mulberry branch”], half a jin [110 g], worth [1 illegible character, i.e., probably 125].

Asiatic Cornelian Cherry [Cornus officinalis], 2½ sheng [500 ml], worth 25.

Fangfeng, ½ jin [110 g], worth 100.

Magnetite, 1½ jin [330 g], worth 130.

Xichong, ½ jin [110 g], worth 25.

xiaojiao, 1½ sheng [300 ml], worth 50.

Asiatic Cornelian Cherry, 2½ sheng [500 ml], worth 50.

Baical skullcap, 1 jin [220 g], worth 70.

Golden thread, ½ jin [110 g], worth 100.

[2 illegible characters], 2 jin [440 g], worth 27.

Taken from Ziwei.

Hezhou, one-half jin [110 g], worth 75.

Japanese teasel, 1 jin [220 g], worth 100.

Taken from Ziwei ... [3 illegible characters] ... Medicine procured was worth 927.

Tablets 92A–B: no medical content, so we have left them untranslated.

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253. The meaning of xichong 席蟲 is unclear. Akahori and Yamada (402, n. 282) and Zhang Yanchang (139, n. 5) treat this as the same as zhezhong 廣蟲 (Wingless cockroach or Eupolyptha), discussed above. We are uncertain about conflating the two, since neither Akahori-Yamada nor Zhang provide a reason for this interpretation.

254. The meaning of xiaojiao 小椒, probably some kind of pepper, is unclear to Akahori and Yamada (402, n. 283).

255. The meaning of hezhou 河藺 is unclear; see Akahori and Yamada (402, n. 286) and Zhang Yanchang (139, n. 7).