Andrey Klebanov 22 jastyk A Translation of the New Edition of the

Contents

The manuscripts and editions used in the vulgate editions	by
Yādavaśarman Trivikrama Ācārya	4
The sources of the 1915 edition	. 4
The sources of the 1931 edition	. 4
The sources of the 1938 edition	. 5
Evaluation	
The 1939 edition	. 7
For the Bhānumatī	
For the Suśrutasamhitā	
Evaluation	
Features of the manuscript transmission	11
Palaeographical features	. 11
Chart of characters	. 11
Sūtrasthāna, adhyāya 1	12
Sūtrasthāna, adhyāya 2	19
Literature	. 19
Sūtrasthāna, adhyāya 16	20
Sūtrasthāna, adhyāya 28	28
Kalpasthāna, adhyāya 1	29
Literature	. 29
Manuscript notes	
Translation	. 31
[Threats to the king]	
Kalpasthāna, adhyāya 2	40
Introduction	_
Translation	_
The effects of poisons	
Symptoms of tuber poisoning	
Slow-acting poison	
The stages of toxic shock	. 40

Remedies for the stages of slow poisoning	50
The 'invincible' ghee	53
Curing the 'slow-acting' poison	53
Kalpasthāna, adhyāya 3	54
Introduction	54
Translation	54
Uttaratantra, adhyāya 16 (17 in the vulgate)	56
Literature	56
Translation	56
[Complications]	65
[Characteristics of the probe]	65
[Complications]	65
Uttaratantra, adhyāya 38	68
Abbreviations	80
Index of Manuscripts	83
References	83
Glossary	99
Glossary of Medical Substances	102
On digital critical editions	104

Kalpasthāna, adhyāya 2

GLS test EnglishTest

Introduction

This section begins with several lists of poisonous plants. The Sanskrit names for these plants are mostly not standard or familiar from anywhere in Sanskrit or ethnobotanical literature. It remains a historical puzzle why these particular names are so difficult to interpret. However, we are not the first to encounter these difficulties. In the twelfth century, the learned commentator on the text, Dalhana, remarked,

In spite of having made the greatest effort, it has been impossible to identify these plants. In the Himalayan regions, Kirātas and Śabaras are able to identify them.¹⁴⁶

Palhaṇa also recorded variant readings of these poison names from the manuscripts that he consulted of the lost commentary of Gayadāsa (fl. c. ce 1000). The identities of these poisons have been in doubt for at least a thousand years. Identifications have in many cases been equally impossible for us today.

One path for exploration in this situation is to attempt to reverse-engineer some identifications by considering the known toxic plants of India.¹⁴⁸

Translation

- 1 And now I shall explain what should be known about stationary poisons. 149
- 3 It is said that there are two kinds of poisons, stationary (*sthāvara*) and mobile (*jaṅgama*). The former dwells in ten sites, the latter in sixteen places.

¹⁴⁶ After Suśrutasaṃhitā, kalpasthāna 2.5 (Su 1938: 564). From the view of Sanskrit authors, Kirāṭas and Śabaras were tribal peoples. The eleventh-century author Bhikṣu Govinda, however, cast his treatise as a dialogue with a Kirāṭa king called Madana who was a master of the alchemical art (HIML: IIA, 620).

¹⁴⁷ See Wujastyk 2003: 80-81.

¹⁴⁸ Valuable reference sources on Indian plant toxicology in general include Pillay 2013: chs. 10, 11 and Barceloux 2008: parts 1.II, 3 and 4.

¹⁴⁹ No reference is made to Dhanvantari (see Birch, Wujastyk, Klebanov, Parameswaran, et al. 2021). "Stationary" here is a term contrasted with "moving," and signifies plants as opposed to animals and insects.

- 4 Traditionally, the ten are: root, leaf, fruit, flower, bark, milky sap ($k \le \bar{i} r a$), pith ($s \bar{a} r a$), resin ($n i r y \bar{a} s a$), the elements ($d h \bar{a} t u$), and the tuber.
- 5 In that context,
 - the eight root-poisons are:
 - 1. liquorice (?),150
 - 2. sweet-scented oleander, 151
 - 3. jequirity, 152
 - 4. false daisy (?), 153
 - 5. *karaṭā*,¹⁵⁴ and ending with
 - 6. leadwort (vidyutsikhā \rightarrow agni- or rakta-sikhā?)ⁱ, ¹⁵⁵
 - 7. 'endless' (ananta)ii, and
 - 8. *vijayā*, 156

Expected
(Pillay 2010)
Croton
tiglium, L.
= Naepala,
Jayapala,
kanakaphala
titteriphala
(NL #720);
Calotropis
spp.;
Citrullus
colocynthus
(colocynthy;
Ricinus
communis
(castor);

Note about Gayī's edi-

- 150 Liquorice eaten in excess can be poisonous, but it is unlikely to be the plant intended here. Singh and Chunekar (1972: 124) noted that the poisonous root mentioned in this passage, "remains to be identified."
- 151 The roots of sweet-scented oleander are highly toxic, as are most parts of the plant (Pillay and Sasidharan 2019).
- 152 Jequirity contains a dangerous toxin called Abrin in its seeds and to a lesser extent in its leaves, but apparently not in its roots or bulb. Abrin is not harmful if eaten, but an infusion of the bruised (not boiled) seeds injected or rubbed in the eyes can be fatal (NK: # 6). The dose can be quite small.
- 153 The plant is usually called just *bhangurā* without the prefix *su*-"good." However, there is no reported toxicity associated with *E. prostrata*..
- This poisonous root cannot at present be identified. Similar-sounding candidates include <code>karkaṭaka</code>, <code>karaghāṭa</code> (emetic nut), and <code>karahāṭa</code>, but since this is a prose passage, there would be no reason to alter the word to fit a metre. Monier-Williams et al. (MW: 255) cite an unknown lexical source that equates <code>karaṭa</code> (mn.) with safflower (<code>Carthamus tinctorius</code>, L.), but this plant does not have a poisonous root.
- 155 The roots of both rose and white leadwort are very toxic.
- 156 Meulenbeld (1989: 61, n. 3) argued that our text read a masculine or neuter noun *vijaya*, which never signifies cannabis. However, unlike the vulgate, the unanimous readings of the Nepalese manuscripts give feminine *vijayā*. Nevertheless, even this form only started to signify *Cannabis sativa* L. after the end of the first millennium (Meulenbeld 1989; Wujastyk 2002; McHugh 2021). The *Sauśrutanighaṇṭu* gives a number of synonyms for *vijayā*, almost none of which have any poisonous parts (Suvedī and Tīvārī 2000: 5.77, 10.143). But one of them, *viṣāṇī* (also *meṣaśṛṅgī*), is sometimes equated with *Dolichandrone falcata* (*DC.*) *Seemann* (Sivarajan and Balachandran 1994: 518), a plant used as an abortifacient and fish poison (Nadkarni 1982*a*: #862). This identification is tenuous.

i Plumbago zeylanica (or rosea?), L.; see NK #1966, 1967

ii ?; see ?

- the leaf-poisons include:
 - 'poison-leaf' (viṣapatrikā)iii,
 - 'drum-giver' (lambaradā)^{iv},
 - thorn apple (karambha)^v, and
 - 'big thorn apple' (mahākarambha)^{vi};
- the fruits of items like: jequirity $(gu\tilde{n}j\bar{a})^{vii}$, rūṣkara $()^{viii}$, viṣa $()^{ix}$, and vedikā $()^{x}$, are
 - kumudavati (kumadavati)xi,
 - renuka (?)xii,
 - kurūkaka (?)xiii
 - 'little bamboo' (venuka)xiv,157,
 - thorn apple (*karambha*)^{xv},
 - 'big thorn apple' (mahākarambha)xvi,
 - 'pleaser' (nandanā)xvii,
 - 'crow' (kāka)^{xviii},
- the flower-poisons include those of:
 - rattan (*vetra*)^{xix},
 - wild chinchona (*kādamba*)^{xx}

157 Not poisonous.

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iii
   unknown; see?
    unknown; see?
    Datura metel, L.; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132.
    Datura metel, L.?; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132.
vii ; see
viii; see
ix ; see
    ; see
    unknown; see?
xii ?; see Piper aurantiacum Wall. (NK: #1924) is not poisonous.
xiii ?; see?
xiv Bambusa bambos, Druce?; see NK #307
    Datura metel, L.; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132.
xvi Datura metel, L.?; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132.
xvii?; see?
xviii?; see?
xix Calamus rotang, L.; see AVS 1.330, NK #413
    Anthocephalus cadamba, Miq.; see NK #204
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- black pepper ($vall\bar{i}ja \rightarrow marica$)^{xxi},
- thorn apple (*karambha*)^{xxii}, and
- big thorn apple (*mahākarambha*)^{xxiii};
- the seven bark, pith $(s\bar{a}ra)$ and resin $(niry\bar{a}sa)$ poisons are:
 - 'gutboiler' (antrapācaka) xxiv,
 - 'blade' (kartarīya)^{xxv},
 - wild mustard (saurīyaka)**xvi,
 - emetic nut $(karagh\bar{a}ta \rightarrow karah\bar{a}ta? \rightarrow madana)^{xxvii}$,
 - thorn apple (*karambha*)^{xxviii},
 - wild asparagus ($nandana \rightarrow bahuputr\bar{a}$?) xxix , and
 - munj grass (*nārācaka*)^{xxx};¹⁵⁸
- the three milky sap (*kṣīra*)-poisons are:
 - purple calotropis $(kumudaghn\bar{i} \rightarrow arka?)^{xxxi}$, ¹⁵⁹
 - oleander spurge (snuhī)xxxii, and
 - 'web-milk' (*jālakṣīri*)^{xxxiii};
- the two element ($dh\bar{a}tu$)-poisons are:

¹⁵⁸ The bark of wild asparagus (Asparagus racemosus, Willd.) is toxic.

¹⁵⁹ The name of this poison, *kumuda-ghnī*, means 'lotus killer'. In Sanskrit literature, the *kumuda* lotus is associated with the moon, since it blossoms by night. Since the sun causes this lotus to close, it is therefore an 'enemy' of the lotus. One of the chief words for the sun, *arka*, is also the name of *Calotropis gigantea*, which indeed has a milky juice which is a violent purgative, poison and abortifacient.

xxi Piper nigrum, L.?; see NK #1929; Rā.6.115, Dha.4.85, Dha.2.88

xxii Datura metel, L.; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132. xxiiiDatura metel, L.?; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132. xxivunknown; see ?

xxv unknown; see?

xxviCleome viscosa, L.? (cf. Rā.4.144); see AVS 2.116, NK #615

xxviRandia dumetorum, Lamk.; see NK #2091

xxviDatura metel, L.; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132. xxixAsparagus racemosus, Willd.; see ADPS 441, AVS 1.218, NK #264, IGP 103, IMP 4.2499ff., Dymock 482ff.

xxx Saccharum bengalense, Retz.?; see NK #2184

xxxiCalotropis gigantea, (L.) R. Br.; see ADPS 52, AVS 1.341, NK #427, Potter 63

xxxi
Euphorbia neriifolia, L., or E. antiquorum, L.; see ADPS 448, AVS (2.388), 3.1, NK #988, IGP 457b

xxxiiinknown; see?

- 'foam-stone' (phenāśma)xxxiv, and
- orpiment (*haritāla*)^{xxxv};¹⁶⁰
- the thirteen tuber-poisons are:
 - jequirity (*kālakūṭa*)^{xxxvi}, ¹⁶¹
 - wolfsbane (*vatsanābha*)^{xxxvii}
 - Indian mustard (sarṣapa)***xxviii,
 - leadwort $(p\bar{a}laka \rightarrow citraka)^{xxxix}$,
 - 'muddy' (kardama)^{x1}, the
 - 'Virāṭa's plant' (vairāṭaka)xli,
 - nutgrass (mustaka)^{xlii}
 - atis root (śṛṅgīviṣa)*liii,
 - sacred lotus (prapuṇḍarīka)xliv,
 - radish $(m\bar{u}laka)^{xlv}$,
 - 'alas, alas' (hālāhala)xlvi,
 - 'big poison' (*mahāviṣa*)^{xlvii}, and

161 The much later (perhaps sixteenth century) alchemical *Rasaratnasamuccaya* of pseudo-Vāgbhaṭa (21.14) says that the *kālakūṭa* poison, here translated as 'jequirity', is similar to '*kākacañcu*' or 'Crow's Beak', which is indeed a name for the plant jequirity or *Abrus precatorius*, L., more commonly called *guñjā* (not to be confused with *gañjā*). The black seed-pod is described as having a 'sharp deflexed beak' in botanical descriptions, so the Sanskrit name is quite graphic and appropriate. The poisonous scarlet seeds of *A. precatorius* can have a distinct black dot or tip, which could perhaps be translated '*kāla-kūṭa*', or 'Black Tip'. The *Rājanighaṇṭupariśiṣṭa* (9.35) gives *kālakūṭaka* as a synonym for *kāraskara*, or *Strychnos nux-vomica*, L., whose seeds are notoriously poisonous.

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xxxiunknown; see ?
xxxvArsenii trisulphidum; see NK v. 2, p. 20 ff.
xxxvAbrus precatorius, L.? Cf. RRS 21.14.; see AVS 1.10, NK #6, Potter 168.
xxxvAbriconitum napellus, L.; see AVS 1.47, NK #42, Potter 4 f.
xxxvAbriassica juncea, Czern. & Coss.; see AVS 1.301, NK #378
xxxiPlumbago zeylanica (indica? rosea?), L.; see Rā. 6.124, ADPS 119, NK #1966, 1967
xl unknown; see ?
xli unknown; see ?
xlii Cyperus rotundus, L.; see ADPS 316, AVS 2.296, NK #782
xliii Aconitum heterophyllum, Wall. ex Royle; see AVS 1.42, NK #39
xliv Nelumbo nucifera, Gaertn.; see Dutt 110, NK #1698
xlv Raphanus sativus, L.; see NK #2098
xlvi unknown; see Cf. Soḍhalanighantu p.43 (sub bola) = stomaka = vatsanābha
xlviiunknown; see ?
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¹⁶⁰ Dutt (1922: 38-42) conjectured that 'foam-stone' may be impure white arsenic obtained by roasting orpiment.

• galls (karkaṭa)xlviii. 162

Thus, there are fifty-five stationary poisons.

There are believed to be four kinds of wolfsbane, two kinds of *mustaka*, and six kinds of Indian *sarṣapa*. But the rest are said to be unique types.

The effects of poisons

7–10 People should know that root-poisons cause writhing (*udveṣṭana*), ranting (*pralāpa*), and delirium (*moha*), and leaf-poisons cause yawning, writhing, and wheezing (śvāsa).

Fruit-poisons cause swelling of the scrotum, a burning feeling and writhing. Flower-poisons will cause vomiting, distension ($\bar{a}dhm\bar{a}na$) and sleep ($sv\bar{a}pa$). The consumption of poisons from bark, pith ($s\bar{a}ra$) and resin ($niry\bar{a}sa$) will cause foul breath, hoarseness ($p\bar{a}rusya$), a headache, and a discharge of phlegm (kapha). 163

The milky sap $(k \bar{s} \bar{t} r a)$ -poisons make one froth at the mouth, cause loose stool, and make the tongue feel heavy. The element $(dh \bar{a} t u)$ -poisons give one a crushing pain in the chest, make one faint and cause a burning feeling on the palate.

These poisons are classified as ones which are generally speaking lethal after a period of time.

11-17 Symptoms of tuber poisoning

The tuber-poisons, though, are severe. I shall talk about them in detail.

¹⁶² Leadwort root is a powerful poison. Nutgrass is tuberous, but non-toxic. Atis has highly toxic tuberous roots. Neither sacred lotus nor galls are toxic. The 'alas, alas' poison (\$h\bar{a}l\bar{a}hala\$) is the mythical poison produced from the churning of the ocean at the time of creation: it occurs in medical texts such as the present one, and commentators identify it with one or other of the lethal poisons such as wolfsbane or jequirity. Agrawala (1963: 126) makes the intriguing suggestion that the word \$h\bar{a}l\bar{a}hala\$, possibly to be identified with Pāṇini's \$hailihila\$ (P.6.2.38), may be of Semitic origin, although his evidence seems uncertain (Steingass (1930: 1506a) cites Persian \$hal\bar{a}hil\$ 'deadly (poison)' as a loan from Sanskrit). Mayrhofer 1953–72: iii.585 also cites a claim for an Austro-Asiatic origin for the word.

¹⁶³ At 1.2.6 (Su 1938: 11), Palhaṇa glosses hoarseness (pāruṣya) as vāgrūkṣatā, "a rough, dry voice."

¹⁶⁴ At 6.54.10 (Su 1938: 773), Dalhaṇa glosses loose stool (viḍbheda) as dravapurīṣatā, "having liquid stool."

With jequirity $(k\bar{a}lak\bar{u}ta)^{xlix}$, there is numbness and very severe trembling. With wolfsbane $(vatsan\bar{a}bha)^l$, there is rigidity of the neck, and the faeces, and urine become yellow.

With sārṣapa ($s\bar{a}rṣapa$), ¹⁶⁵ the wind becomes defective ($v\bar{a}tavaigunya$), there is constipation ($\bar{a}n\bar{a}ha$), and lumps (granthi) start to appear. With leadwort ($p\bar{a}laka \rightarrow citraka$) ^{li}, there is weakness in the neck, and speech gets jumbled. ¹⁶⁶

With the one called 'muddy' (*kardama*)^{lii}, there is a discharge (*praseka*), the faeces pour out, and the eyes turn yellow. The 'Virāṭa's plant' (*vairāṭaka*)^{liii} causes pain in the body and illness in the head. Paralysis of one's arms and legs and trembling are said to be caused by mustaka (*mustaka*).¹⁶⁷

With great aconite ($mah\bar{a}vi$;a) one's limbs grow weak, there is a burning feeling and swelling of the belly. ¹⁶⁸

-> ativișa

- 16a With puṇḍarīka (puṇḍarīka), one's eyes go red, and one's belly becomes distended. 169
- 16b With mūlaka ($m\bar{u}laka$), one's body is drained of colour and the limbs are paralysed.¹⁷⁰

Look up the ca. reference.

- 165 *Sārṣapa* would normally mean "connected with mustard," and excessive consumption of mustard oil can be harmful. However, the *Sauśrutanighaṇṭu* (156) gives *rakṣoghnā* as a synonym for *sarṣapā*. This can be *Semecarpus anacardium*, L.f., which has some poisonous parts.
- 166 The verse in the Nepalese version ends with a plural verb that does not agree with the dual of the sentence subject.
- 167 The substitution in MS NAK 5-333 affecting 15cd is caused by an eye-skip to the word *viṣeṇa* in 2.17. *Mustaka* commonly refers to Cyperus rotundus, L.; the root is used in āyurveda but is not poisonous. However other dictionaries list *mustaka* amongst serious poisons, for example *Rājanighaṇtu* (22 v. 42) and *Rasaratnasamuccaya* 16, v. 80. However, its ancient identity is still doubtful.
- 168 The poisonous root great poison (*mahāviṣa*) is not clearly identifiable, although *viṣa* is commonly aconite. Verse 6 above notes that there are several kinds of aconite.
- 169 The word <code>pundarīka</code> very commonly means sacred lotus, Nelumbo nucifera, Gaertn. The entire plant is edible and cannot be the poison intended here. Singh and Chunekar (1972: 252) noted that this poison is unidentified and that it is also listed as a poison in <code>Carakasam-hitāci.23.12</code>.
- 170 The word *mūlaka* very commonly means the radish, *Raphanus sativus*, L. The root is edible and cannot be the poison intended here. Singh and Chunekar (1972: 317) noted that this

xlix Abrus precatorius, L.? Cf. RRS 21.14.; see AVS 1.10, NK #6, Potter 168.

¹ Aconitum napellus, L.; see AVS 1.47, NK #38, Potter 4 f.

li Plumbago zeylanica (indica? rosea?), L.; see Rā. 6.124, ADPS 119, NK #1966, 1967

lii unknown; see?

liii unknown; see?

- 17a With hālāhala (*Aconite*), a man turns a dark colour (*dhyāma*), and gasps. 171
- With atis root $(\acute{srng}\bar{\imath}vi_{\dot{s}a})^{liv}$, one gets violent knots (granthi) and stabbing pains in the heart. 172
- 18a With markata (*monkey*), one leaps up, laughs, and bites. 173
- Experts have said that one should know that the thirteen highly potent tuber-poisons, which are mentioned here, have ten qualities (*guṇa*).

19b-20a The ten are:

- dry (*rūkṣa*),
- hot,
- sharp,
- rarified (*sūksma*),
- fast-acting,
- pervasive (vyavāyin),
- expansive (vikāsin),
- limpid (viśada),
- · light, and
- indigestible.
- Because of dryness, it may cause inflammation of the wind; because of heat it inflames the choler and blood. Because of the sharpness it unhinges the mind, and it cuts through the connections with the sensitive points (*marman*). Because it is rarified it can infiltrate and distort the parts of the body.¹⁷⁴
 - Because it is fast-acting it kills quickly, and because of its pervasiveness it

poison is unidentified.

¹⁷¹ Identification of \$halahala\$ is uncertain. It may simply be a mythical poison, or its specific identity may have been lost over the centuries. Late \$nighantus\$ identify it as \$stomaka = vat-sanabha\$, i.e., \$Aconitum napellus\$, L. (\$Sodhalanighantu p.43). Dalhana on 5.2.17 (Su 1938: 564) interprets our "gasps" as "the man laughs and grinds his teeth." But this gloss is probably displaced and intended to apply to verse 2.18.

¹⁷² Singh and Chunekar (1972: 407) noted that *vatsanābha* and *śṛṅgīviṣa* are two different varieties of poisonous Aconites that are difficult to distinguish.

¹⁷³ Singh and Chunekar (1972: 299) said of *markaṭa*, "an unidentified vegetable poison." Cf. Suvedī and Tīvārī 2000: v.36 for synonyms that lead to the non-toxic jujube tree.

¹⁷⁴ We read the active *vikaroti* with <code>Dalhaṇa</code> against the transmitted passive *vikriyeta*, since it must be the parts of the body that are distorted, not the poison.

liv Aconitum heterophyllum, Wall. ex Royle; see AVS 1.42, NK #39

affects one's whole physical constitution (prakrti).¹⁷⁵ Because of its expansiveness it enters into the humour (doṣa)s, bodily constituents ($dh\bar{a}tu$)s, and even the impurities. Because it is limpid it overflows, and because it is light it is difficult to treat. Because it is indigestible it is hard to eliminate. Therefore, it causes suffering for a long time.

Any poison that is instantly lethal, whether it be stationary, mobile, or artificial, will be known to have all ten of these qualities.

Slow-acting poison

- A poison that is old or destroyed by anti-toxic medicines, or else dried up by blazing fire, wind, or sunshine, or which has just lost its qualities by itself, becomes a slow-acting poison $(d\bar{u}_{\bar{s}\bar{i}}vi_{\bar{s}a})$. Because it has lost its potency it is no longer perceived. Because it is surrounded by phlegm (kapha) it has an aftermath that lasts for a very long time.
 - 27 If he is suffering from this, the colour of his stools changes, he gets sourness and a bad taste with great thirst. Stammering and close to death, wandering about, he may feel faint, giddy, and aroused.¹⁷⁸
 - If it lodges in his stomach (āmāśaya), he becomes sick because of wind and phlegm; if it lodges in his intestines (pakvāśaya), he becomes sick because of wind and choler. A man's hair and limbs fall away and he looks like a bird whose wings have been chopped off.
 - 29a-c If it lodges in one of the body tissues such as chyle (*rasa*), it causes the diseases arising from the body tissues, that have been said to be wrong.¹⁷⁹ and it rapidly becomes inflamed on days that are nasty because of cold and wind.
- 29d–31 Listen to its initial symptoms (*liṅga*): it causes heaviness due to sleep, yawning, disjunction (*viśleṣa*) and horripilation (*harṣa*) and a bruising of the limbs

¹⁷⁵ Dalhana on 5.2.22 (Su 1938: 565) explained this as "takes the form of pervading the whole body (akhiladehavyāptirūpam)."

¹⁷⁶ Dalhana specified that this refers to the ten qualities that are mentioned above (5.2.26 (Su 1938: 565)).

¹⁷⁷ Dalhana cited this verse at 1.46.83 (Su 1938: 222) while explaining dūṣīviṣa.

¹⁷⁸ Similar symptoms of slow-acting poison are described at 2.7.11–13 (Su 1938: 296) in the context of contamination dropsy (*duṣyodara*). This this may explain why the vulgate inserted reference to this disease at this point.

¹⁷⁹ The expression *ayathāyathoktān* "stated to be unsuitable" is hard to understand here, but is clearly transmitted in the Nepalese version.

(angamarda). Next, it causes intoxication from food (annamada) and indigestion, loss of appetite (arocaka), the condition of having a skin disease (koṭha) with round blotches (maṇḍala), the fever called pralepaka, vomiting and diarrhoea. The slow-acting poison might cause wheezing, thirst and fever, and it might also cause distension of the abdomen.

- These various disorders are of many different types: one poison may produce madness, while another one may cause constipation (\$\bar{a}n\bar{a}ha), and yet another may ruin the semen. One may cause emaciation, while another pallid skin disease (\$kuṣṭha).
- Something is "corrupted" by repetitively keeping to bad locations, times, foods, and sleeping in the daytime. Or, traditionally, "corrupting poison" (slow-acting poison ($d\bar{u}$ \bar{s} \bar{i} -v \bar{i} \bar{s} a)) is so called because it may corrupt ($d\bar{u}$ \bar{s} aya

34- The stages of toxic shock

In the first shock of having taken a stationary poison, a person's tongue becomes dark brown and stiff, he grows faint, and panics.

- In the second, he trembles, feels exhausted, has a burning feeling, as well as a sore throat. When the poison reaches the stomach ($\bar{a}m\bar{a}\dot{s}aya$), it causes pain in the chest (hrd).
- In the third,his palate goes dry, he gets violent pain ($\sin la u$) in the stomach ($\sin la u$), and his eyes become weak, swollen and yellow.
- In the fourth shock, it causes the intestines and stomach to be exhausted $(s\bar{a}da)$, he gets hiccups, a cough, a rumbling in the gut (antra), and his head becomes heavy too.
- In the fifth he dribbles phlegm (*kapha*), goes a bad colour, his ribs crack (*parśvabheda*), all his humours are irritated, and he also has a pain in his intestines (*pakvādhāna*).
- 39a In the sixth, he loses consciousness and he completely loses control of his bowels.

¹⁸⁰ Palhaṇa 5.2.30ab (Su 1938: 565) glossed "disjunction" as the loss of function of the joints in regard to movement.

¹⁸¹ The last ailment could perhaps be ringworm.

¹⁸² The *pralepaka* fever was described by Palhaṇa, at 6.39.52 (Su 1938:675), as an accumulation of phlegm in the joints. Its symptoms are described in 6.39.54

39b In the seventh, there are breaks in his shoulders, back and loins, and he stops breathing.¹⁸³

Remedies for the stages of slow poisoning

- In the first shock of the poison, the physician should make the man, who has vomited and been sprinkled with cold water, drink an antidote (*agada*) mixed with with honey and ghee.
- In the second, he should make the man who has vomited and been purged drink as before;
- on the third, drink an antidote and a beneficial nasal medicine (*nasya*) as well as an eye salve (*añjana*).
- In the fourth, the physician should make him drink an antidote that is salt with a little oil. 184
- In the fifth, he should be prescribed the antidote together with a decoction $(kv\bar{a}tha)$ of honey and liquorice $(madhuka)^{lv}$.
- In the sixth, the cure (*siddhi*) is the same as for diarrhoea. And in the seventh, he perishes. 185
- In between any one of these shocks, once the above treatment has been done, he should give the patient the following cold gruel $(yav\bar{a}g\bar{u})$ together with ghee and honey, that will take away the poison.

Another difference at this point is that the Nepalese version also does not support the vulgate's passage on the crow's foot ($k\bar{a}kapada$) therapy (Wujastyk 2003: 145, n. 106). The same is the case at 5.5.24 (Su 1938: 575) and the clear description at 5.5.45 (Su 1938: 577), in neither of which is the therapy supported in the Nepalese version. This therapy seems unknown in the Nepalese version. Perhaps the therapy migrated into the *Suśrutasamhitā* from the *Carakasamhitā* (6.23.66–67 (Ca. 1941: 574)).

¹⁸³ Here at 5.2.24 (Su 1938: 566) Dalhaṇa glossed sannirodha as "complete cessation, i.e., of breath" (sannirodhaḥ samyaṅnirodhaḥ, ucchvāsasya iti śeṣaḥ). The manuscripts all read skanda where skandha must be intended; this confusion is known from Buddhist Hybrid Sanskrit (Edgerton 1953: 608).

¹⁸⁴ At 6.52.30 (Su 1938: 769) Dalhana noted that sindhu can be interpreted as salt (saindhava).

¹⁸⁵ The vulgate text here is quite different, recommending that the patient have medicated powder blown up his nose. It may be possible to detect the evolution of the Nepalese अवसी-देत् to the vulgate's अवपीडश्. The vulgate version is hard to construe, and we see Dalhaṇa struggling to interpret it in his commentary on 5.2.43ab (Su 1938: 566). This sternutatory is, however, recommended in the Nepalese version at 5.5.30ab (Su 1938: 576), for the seventh shock of poisoning by a rājimat (striped snake) snake. It is possible the text migrated from that location to this.

lv Glycyrrhiza glabra, L.; see AVS 3.84, NK #1136

- 45–46 A gruel (yavāgū) made of the following items in a stewed juice (niḥkvā-tha) destroys the two poisons: gourd (kośavatī), 186 wild celery (agnika), 187 velvet-leaf (pāṭhā), 188 'sun-creeper' (sūryavallī), 189 heart-leaved moonseed (amṛtā), 190 myrobalan (abhayā), 191 siris (śirīṣa) 192, and selu plum (śelu) 193 white siris (kiṇihi), 194 the two turmerics (haridrā), 195 and the two Indian nightshades (bṛhatī), 196 hogweed, peas, the three heating spices, the Indian sarsaparillas
 - 186 At 4.10.8 (Su 1938: 449) Dalhaṇa glosses kośavatī as devadālī and at 4.18.20 (Su 1938: 472) as kaṭukośātakī, vocabulary pointing to Cucumis cylindrica, Cucumis actangula or Luffa echinata (Singh and Chunekar 1972: 207, 121; Sivarajan and Balachandran 1994: 252–253).
 - 187 A plant often cited in *Suśrutasaṃhitā*, but rarely in *Carakasaṃhitā* (Singh and Chunekar 1972: 4). Dalhaṇa glossed it here, 5.2.45 (Su 1938: 566), as wild celery (*ajamodā*), *Apium graveolens*, L., but noted that others consider it to be *moraṭa*, *Marsdenia tenacissima* (Roxb.) Wight et Arn. There is considerable complexity surrounding the identification of *moraṭa/mūrvā* and related synonyms (Singh and Chunekar 1972: 314-316). Taking *agnika* as a short reference to *agnimantha*, often identified with *Premna corymbosa*, Rottl., might be plausible, since that is antitoxic or anti-inflammatory (Sivarajan and Balachandran 1994: 21; Nadkarni 1954: #2025; Warrier et al. 1994–6: 4, 348), but such a short reference is not known elsewhere.
 - 188 Cissampelos pariera, L., Sivarajan and Balachandran 1994: 366; Nadkarni 1954: #592; Singh and Chunekar 1972: 243–244; Warrier et al. 1994–6: 2.277.
 - 189 At 5.2.45 (Su 1938: 566) Dalhaṇa said that this plant has leaves like the *paṭola*, *Trichosanthes dioica* Roxb. Singh and Chunekar (1972: 280, 443) argued plausibly that this is a synonym for *arkapuṣpī*, *Holostemma ada-kodien*, (Roxb.) Schult., as Dalhaṇa also stated in 1.45.120 (Su 1938: 206), and the leaves of Holostemma and Trichosanthes are indeed strikingly similar. The appearance of the plant, a creeper with sun-like flowers, fits the name. But there remains much controversy about the identities of these candidates (e.g., Sivarajan and Balachandran 1994: 195–198).
 - 190 *Tinospora cordifolia*, (Willd.) Hook.f. & Thoms. (Singh and Chunekar 1972: 141–143; Sivarajan and Balachandran 1994: 38–40)Nadkarni 1954: #2472 and #624.
 - 191 *Terminalia chebula*, Retz. (Sivarajan and Balachandran 1994: 172; Nadkarni 1954: #2451; Singh and Chunekar 1972: 15).
 - 192 *Albizia lebbeck*, Benth. (Warrier et al. 1994–6: 1.81; Nadkarni 1954: #91; Singh and Chunekar 1972: 399–400).
 - 193 *Cordia myxa*, L. non Forssk. (Warrier et al. 1994–6: 2.180; Nadkarni 1954: #672; Singh and Chunekar 1972: 408, 413–414).
 - 194 Albizia procera, (Roxb.) Benth. (Nadkarni 1954: #93; Singh and Chunekar 1972: 98).
 - 195 haridrā and dāruharidrā Singh and Chunekar 1972: 465-466.
 - 196 Poison berry (*bṛhatī*), *Solanum violaceum*, Ortega, and yellow-berried nightshade (*kṣudrā*), *Solanum virginianum*, L. (Singh and Chunekar 1972: 277–278; Sivarajan and Balachandran 1994: 100; Nadkarni 1954: #2329; Warrier et al. 1994–6: 5.151, 164).

(sārive)197 and water-lily (utpala).198

¹⁹⁷ country sarsaparilla (*anantā*) Hemidesmus indicus, (L.) R. Br. ADPS 434, AVS 3.141–5, NK #1210 and black creeper (*pālindī*) Ichnocarpus frutescens, (L.) R.Br. or Cryptolepis buchanani, Roemer & Schultes AVS 3.141, 3.145, 3.203, NK #1283, #1210, ADPS 434.

¹⁹⁸ *Nymphaea stellata*, Willd. GJM 528, IGP 790; Dutt 110, NK #1726. Dalhana was aware of this reading 5.2.46 (Su 1938: 566).

The 'invincible' ghee

There is a famous ghee called "Invincible" (*ajeya*). It rapidly destroys all poisons but is itself unconquered. It is prepared with a mash (*kalka*) of the following plants: liquorice, crape jasmine, costus, deodar, peas, Indian madder, cardamom and cherry, cobra's saffron, water-lily, sugar, embelia, sandalwood, cassia cinnamon, beautyberry, rosha grass, the two turmerics, ¹⁹⁹ the two Indian nightshades, ²⁰⁰ Indian sarsaparilla and beggarweed, and country mallow.

Curing the 'slow-acting' poison

- Someone suffering from "slow-acting poison ($d\bar{u}$ \bar{s} $\bar{t}vi$ $\bar{s}a$)" should be well sweated, and purged both top and bottom. Then he should be made to drink the following eminent antidote which removes "slow-acting poison:" Take long pepper, rosha grass, spikenard, lodh tree, cardamom, natron, scented pavonia, red chalk, as well as gold, and pondweed This antitoxin, taken with honey, eliminates slow-acting poison. It is called the "enemy of slow-acting poison ($d\bar{u}$ \bar{s} $\bar{t}vi$ \bar{s} $\bar{a}ri$)," and it is not prohibited in other situations.
- If there are any other side-effects (*upadrava*), such as fever, a burning feeling, hiccups, constipation ($\bar{a}n\bar{a}ha$), depletion of the semen, distension, diarrhoea, fainting, skin problems, bellyache (jathara), madness, trembling, then one should treat each one in its own terms, using anti-toxic medicines.
 - For a prudent person, the slow-acting poison can be cured ($s\bar{a}dhya$) immediately. It is treatable ($y\bar{a}pya$) if it is of a year's standing. Other than this, it should be avoided for the person who eats unwholesome things.

¹⁹⁹ turmeric and Indian barberry.

²⁰⁰ poison berry and yellow-berried nightshade.

Abbreviations

Ah 1939 Kuṃṭe, Aṇṇā Moreśvara, Navare, Kṛṣṇaśāstrī, and Parādkar, Hariśāstrī (1939) (eds.), श्रीमद्गाग्भटिवरचितम् अष्टाङ्गहृदयम्, श्रीमदरुणदत्तिव-रचितया सर्वाङ्गसुन्दराख्यया व्याख्यया, हेमाद्रिप्रणीतया आयुर्वेदरसायनाह्नया टीकया च समुल्लसितम् = The Astāngahṛidaya (6th edn., Muṃbayyām: Nirṇayasāgara Press), ark:/13960/t3tt6967d.

Anup Sanskrit Library (n.d.).

Apte Apte, Vaman Shivaram (1992), *The Practical Sanskrit-English Dictionary* (Kyoto: Rinsen Book Company), ISBN: 4-653-00038-7; Reprinted from Gode and Karve 1957-9.

AS Asiatic Society (n.d.).

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Bhela 1921 Mookerjee, Ashutosh and Ananta Krishna Shastri, Vedantabisharad (1921) (eds.), *The Bhela Samhita. Sanskrit Text* (Calcutta: University of Calcutta), ark:/13960/t3sv3157j; Based on two copies made of the Thanjavur codex unicus (MS Thanjavur TMSSML 10773, Burnell 1880: 63–4, P. P. S. Sastri 1933: #11085).

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BL British Library (n.d.).

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HIML Meulenbeld, Gerrit Jan (1999–2002), A History of Indian Medical Literature, 5 vols. (Groningen: E. Forsten), ISBN: 9069801248.

IOLR Eggeling, Julius et al. (1887–1935), Catalogue of the Sanskrit Manuscripts in the Library of the India Office (London: Secretary of State for India).

KL Kaiser Library (n.d.).

MW Monier-Williams, Monier, Leumann, E., Cappeller, C., et al. (1899), A Sanskrit–English Dictionary Etymologically and Philologically Arranged, New Edition (Oxford: Clarendon Press); 1970 reprint.

NAK National Archives of Kathmandu (n.d.).

NCC Raghavan, V. et al. (1949–), New Catalogus Catalogorum, an Alphabetical Register of Sanskrit and Allied Works and Authors, 39 vols. (Madras University Sanskrit Series; Madras: University of Madras); v.1: revised edition, 1968.

NGMCP (2014), 'Nepal-german Manuscript Cataloguing Project. Online Title List and Descriptive Catalogue', Universität Hamburg and Deutsche Forschungsgemeinschaft, URL.

NK Nadkarni, K. M. (1982a), Dr. K. M. Nadkarni's Indian Materia Medica, with Ayurvedic, Unani-tibbi, Siddha, Allopathic, Homeopathic, Naturopathic & Home Remedies, Appendices & Indexes ... in Two Volumes, ed. A. K. Nadkarni, 2 vols. (3 ed., revised and enlarged by A. K. Nadkarni, Bombay: Popular Prakashan), ISBN: 8171541429, URL.

RORI Rajasthan Oriental Research Institute (n.d.).

Su 1889 Bhaṭṭācāryya, Jīvānanda Vidyāsāgara (1889) (ed.), सुश्रुतः. सूत्र-निदान-शारीर-चिकित्सा-कल्पोत्तर-तन्त्र-कल्पित आयुर्वेद. भगवता धन्व-न्तरिणोपदिष्टः सुश्रुतनामधेयेन तच्छिष्येण विरचितः (3rd edn., Calcutta: Saratī Press), ark:/13960/t1nh6j09c; HIML: IB, 311, edition b.

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Acārya, Yādavaśarma Trivikrama (1931) (ed.), सुश्रुतसंहिता, वैद्यवर-श्रीडल्हणाचार्यविरचितया निबन्धसंग्रहाख्यव्याख्यया समुष्लसिता, महर्षिणा सुश्रुतेन विरचिता, सूत्र-निदान-शारीर-चिकित्सा-कल्पस्थानोत्तरतन्त्रात्मकः. आचार्योपाह्वेन त्रिविक्रमात्मजेन यादवशर्मणा संशोधिता = The Sushrutasaṃhitā of Sushruta with the Nibandhasangraha Commentary of Shree Dalhaṇāchārya (2nd edn., Mumbayyām: Pānduraṅga Jāvajī at the Nirṇayasāgaramudrāyantrālaye), ark:/13960/t9j41sg94, accessed og/o6/2020; HIML: IB, 312 edition *v.

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Index of Manuscripts

The numbers after the colon refer to pages in this document.

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Glossary

'sun-creeper'	antra	- moha: 45
- sūryavallī: 51	- gut: 49	dhātu
"invincible"	arocaka	- bodily constiuents:
- ajeya: 53	-loss of appetite: 49	48
		- body tissue: 49
abhayā	be exhausted	- element: 41, 43, 45
- myrobalan: 51	- sāda: 49	dhyāma
Aconite	bellyache	- dark colour: 47
- hālāhala: 47	- jaṭhara: 53	discharge
ādhmāna	black creeper	- praseka: 46
- distension: 45	- pālindī: 52	disjunction
agada	bodily constiuents	- viśleşa: 48
- antidote: 50	- dhātu: 48	distension
agnika	body tissue	
- wild celery: 51	- dhātu: 49	- ādhmāna: 45
ajamodā	bṛhatī	doșa
- wild celery: 51	- indian nightshades:	- humour: 48
ajeya	51	dry
- "invincible": 53	- poison berry: 51	- rūkṣa: 47
akhiladehavyāptirūpam	bruising of the limbs	dūṣī-viṣa
- takes the form of	- angamarda: 49	- slow-acting poison:
pervading the whole	ungumurua. 49	49
body: 48	chest	dūṣīviṣa
āmāśaya	- hṛd: 49	- slow-acting poison:
- stomach: 48f	chyle	53
amrtā	- rasa: 48	dūṣīviṣāri
- heart-leaved	constipation	- enemy of
moonseed: 51	- ānāha: 46, 49, 53	slow-acting poison:
ānāha	contamination dropsy	53
- constipation: 46 , 49 ,	- duṣyodara: 48	dușyodara
53	country sarsaparilla	 contamination
anantā	- anantā: 52	dropsy: 48
- country	crow's foot	dwindling away
sarsaparilla: 52		- kṣaya: 49
aṅgamarda	- kākapada: 50	•
- bruising of the	cure	element
limbs: 49	- siddhi: 50	- dhātu: 41, 43, 45
•	cured	enemy of slow-acting
añjana	- sādhya: 53	poison
- eye salve: 50 annamada	dark colour	- dūṣīviṣāri: 53
- intoxication from		
food: 49	- dhyāma: 47 decoction	expansive
		- vikāsin: 47
antidote	- kvātha: 50	eye salve
- agada: 50	delirium	- añjana: 50

gourd	- bellyache: 53	markaṭa
- kośavatī: 51	, 55	- monkey: 47
granthi	kākapada	mash
- knots: 47	- crow's foot: 50	- kalka: 53
- lumps: 46	kalka	milky sap
great aconite	- mash: 53	- kṣīra: 41, 43, 45
- mahāviṣa: 46	kapha	mobile
great poison	- phlegm: 45, 48f	- jaṅgama: 40
- mahāviṣa: 46	kiṇihi	moha
gruel	- white siris: 51	- delirium: 45
- yavāgū: 50f	knots	monkey
guna	- granthi: 47	- markaṭa: 47
- qualities: 47	kośavatī	mūlaka
gut	- gourd: 51	- mūlaka: 46
- antra: 49	koṭha	mūlaka
4)	- skin disease: 49	- mūlaka: 46
hālāhala	kṣaya	mustaka
- Aconite: 47	- dwindling away: 49	- mustaka: 46
haridrā	ksīra	mustaka
-turmerics: 51	- milky sap: 41, 43,	- mustaka: 46
harṣa	45	myrobalan
- horripilation: 48	ksudrā	- abhayā: 51
heart-leaved moonseed	- yellow-berried	we may an 32
- amṛtā: 51	nightshade: 51	nasal medicine
hoarseness	kuṣṭha	- nasya: 50
- pāruṣya: 45	- pallid skin disease:	nasya
horripilation	49	- nasal medicine: 50
- harşa: 48	kvātha	niḥkvātha
hrd	- decoction: 50	- stewed juice: 51
- chest: 49	3.	niryāsa
humour	limpid	- resin: 41, 43, 45
- doṣa: 48	- viśada: 47	2 - 20 - 20
	liṅga	pain
indian nightshades	- symptoms: 48	- śūla: 49
- bṛhatī: 51	loose stool	pakvādhāna
indian sarsaparillas	- viḍbheda: 45	- intestines: 49
- sārive: 52	loss of appetite	pakvāśaya
intestines	- arocaka: 49	- intestines: 48
- pakvādhāna: 49	lumps	pālindī
- pakvāśaya: 48	- granthi: 46	- black creeper: 52
intoxication from food		pallid skin disease
- annamada: 49	mahāviṣa	- kuṣṭha: 49
	- great aconite: 46	parśvabheda
jaṅgama	- great poison: 46	- ribs crack: 49
- mobile: 40	maṇḍala	pāruṣya
iathara	- round blotches: 40	- hoarseness: 45

pāṭhā	- saindhava: 50	svāpa
- velvet-leaf: 51	sāra	- sleep: 45
pervasive	- pith: 41, 43, 45	śvāsa
- vyavāyin: 47	sārive	- wheezing: 45
phlegm	- indian sarsaparillas:	symptoms
- kapha: 45, 48f	52	- liṅga: 48
pith	sārṣapa	8 1
- sāra: 41, 43, 45	- sārṣapa: 46	takes the form of
poison berry	sārṣapa	pervading the whole
- bṛhatī: 51	- sārṣapa: 46	body
pralāpa	selu plum	- 6
- ranting: 45	- śelu: 51	akhiladehavyāptirūpam:
praseka	selu	48
- discharge: 46		treatable
puṇḍarīka	- selu plum: 51 siddhi	- yāpya: 53
- puṇḍarīka: 46		turmerics
puṇḍarīka	- cure: 50	- haridrā: 51
- puṇḍarīka: 46	side-effects	
- puṇḍarīka. 40	- upadrava: 53	udvestana
qualities	siris	- writhing: 45
- guṇa: 47	- śirīṣa: 51	upadrava
80,000 47	śirīṣa	- side-effects: 53
rājimat	- siris: 51	utpala
- striped snake: 50	skin disease	- water-lily: 52
ranting	- koṭha: 49	,, atel 111, 1 32
- pralāpa: 45	sleep	velvet-leaf
rarified	- svāpa: 45	- pāṭhā: 51
- sūkṣma: 47	slow-acting poison	vidbheda
rasa	- dūṣī-viṣa: 49	-loose stool: 45
- chyle: 48	- $dar{u}$ ṣ $ar{i}$ viṣ a : 53	vikāsin
resin	stationary	- expansive: 47
- niryāsa: 41, 43, 45	- sthāvara: 40	viśada
ribs crack	stewed juice	- limpid: 47
- parśvabheda: 49	- niḥkvātha: 51	viśleşa
round blotches	sthāvara	- disjunction: 48
- maṇḍala: 49	- stationary: 40	vyavāyin
rūkṣa	stomach	- pervasive: 47
- dry: 47	- āmāśaya: 48f	pervasive. 47
ury. 47	striped snake	water-lily
sāda	- rājimat: 50	- utpala: 52
- be exhausted: 49	sūkṣma	wheezing
sādhya	- rarified: 47	- śvāsa: 45
- cured: 53	śūla	white siris
saindhava	- pain: 49	- kiṇihi: 51
- salt: 50	sūryavallī	wild celery
salt	- 'sun-creener': 51	- agnika: E1

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- ajamod\bar{a}: 51 y\bar{a}pya yellow-berried writhing - treatable: 53 nightshade yav\bar{a}g\bar{u} - kṣudr\bar{a}: 51 - udveṣṭana: 45 - gruel: 50f
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Glossary of Medical Substances

beautyberry śyāmā \rightarrow priyangu. Callicarpa macrophylla, Vahl. See AVS 1.334, NK #420. 53

beggarweed aṃśumatī. Desmodium gangeticum (L.) DC (Dymock 1.428, GJM 602, NK #1192; ADPS 382, 414 and AVS 2.319, 4.366 are confusing) 53

cardamom elā. Elettaria cardamomum, Maton. See AVS 2.360, NK #924, Potter 66. 53

cassia cinnamon patra. Cinnamomum tamala, (Buch.-Ham.) Nees. See AVS 2.84, NK #. 53

cherry elavāluka. Prunus cerasus, L.?. See BVDB 58, NK #2037, Singh and Chunekar 1972: 58.

cobra's saffron nāgapuṣpa. = nāgakeśara. Mesua ferrea, L. See NK #1595, Singh and Chunekar 1972: 220 53

costus kustha. Saussurea costus, Clarke. See NK #2239. 53

country mallow balā. Sida cordifolia, L. See ADPS 71, NK #2297. 53

crape jasmine crape jasmine. Tabernaemontana divaricata (L.) R.Br. ex Roem. & Schultes. See GJM 557, AVS 5.232. 53

deodar bhadradāru. Cedrus deodara, (Roxb.ex D.Don) G. Don. See AVS 41, NK #516. 53

embelia vidanga. Embelia ribes, Burm. f. See ADPS 507, AVS 2.368, NK #929, Potter 113. 53

EnglishTest This is a test of test 40

false daisy (?) (su)bhangura = bhṛnga? Eclipta prostrata (L.) L. See Singh and Chunekar 1972: 288. 41

gold hema. gold. 53

hogweed punarnavā. Boerhaavia diffusa, L. See ADPS 387, AVS 1.281, NK #363. 51

Indian barberry dāruharidrā. Berberis aristata, DC. See Dymock 1.65, NK #685, GJM 562, IGP 141. 53

Indian madder mañjiṣṭhā. Rubia cordifolia, L. See IGP, GIMP 215, Singh and Chunekar 1972: 289. 53

Indian sarsaparilla sārivā. anantā (Hemidesmus indicus, (L.) R. Br.ADPS 434, AVS 3.141–5, NK #1210) and black creeper (pālindī. Ichnocarpus frutescens, (L.) R.Br. or Cryptolepis buchanani, Roemer & Schultes AVS 3.141, 3.145, 3.203, NK #1283, #1210, ADPS 434). 53

jequirity guñjā. Abrus precatorius, L. See AVS 1.10, NK #6, Potter 168. 41 liquorice (?) klītaka. Glycyrrhiza glabra, L.? Singh and Chunekar 1972: 123-124 discuss the many difficulties in identifying this plant 41 liquorice madhuka. Glycyrrhiza glabra, L. See AVS 3.84, NK #1136. 53 **lodh tree** lodhra. Symplocos racemosa, Roxb. See GJM 597, ADPS 279f. 53 long pepper pippalī. Piper longum, L. See ADPS 374, NK #1928. 53 natron suvarcikā. Sodium carbonate. NK 2, p. 101. Dalhaṇa identifies suvarcikā with svarjikṣāra 4.8.50 (Su 1938: 441) 53 peas harenu = satīna. Pisum sativum, L. Singh and Chunekar (1972: 419-420, 467-468) notes that two plants are usually meant under this name, but there is no agreement on the identity of the second 51, 53 poison berry brhatī. Solanum violaceum, Ortega. See ADPS 100, NK #2329, AVS 5.151. 53 pondweed paripelavā. Normally a neuter noun. Singh and Chunekar (1972: 238, 264-265, 409) argued that plava and śaivāla are the same thing, and may be either Zannichellia palustris, L., or Potamogeton pectinatus, L. 53 red chalk gairika. 53 rosha grass dhyāmaka. Cymbopogon martinii (Roxb.) Wats. See AVS 2.285, NK #177. 53 sandalwood candana. Santalum album, L. See ADPS 111, NK #2217. 53 scented pavonia bālaka. Pavonia odorata, Willd. See ADPS 498, NK #1822. 53 spikenard māmsī. Nardostachys grandiflora, DC. See NK #1691. 53 sugar sitā, sugar. Dalhana makes this equation at 1.37.25 (Su 1938: 162). 53 sweet-scented oleander aśvamāraka. Nerium oleander, L. See ADPS 223, NK #1709. 41 three heating spices sunthi (Dried ginger) Zingiber officinale, Roscoe. ADPS 50, NK #2658, AVS 5.435, IGP 1232, pippalī (long pepper) Piper longum, L.ADPS 374, NK #1928, and marica (black pepper) Piper nigrum, L.ADPS 294, NK #1929. 51 turmeric rajanī. Curcuma longa, L. ADPS 169, AVS 2.259, NK #750. 53 water-lily utpala. Nymphaea stellata, Willd. See GJM 528, IGP 790; Dutt 110, NK #1726. 53

yellow-berried nightshade ksudrā. Solanum virginianum, L. See ADPS 100, NK #2329, AVS

5.164. 53

Appendix

On digital critical editions

- Price, Kenneth M. (2013), 'Electronic Scholarly Editions', in Ray Siemens and Susan Schreibman (eds.), A Companion to Digital Literary Studies (Chichester, UK: John Wiley & Sons, Ltd), 434–50. DOI: 10.1002/9781405177504.ch24, URL, accessed 04/07/2021.
 - A survey of the field in 2013, with a focus on the presentation of electronic texts rather than on critical editing as such.
- Moureau, Sébastien. (2015), 'The Apparatus Criticus', in Alessandro Bausi et al. (eds.), Comparative Oriental Manuscript Studies: An Introduction (Hamburg: Tredition), 348-52, ISBN: 978-3-7323-1768-4, URL, accessed 04/07/2021.
 - Useful discussion about the *apparatus criticus* in general, and an evaluation of the plus and minus points of positive and negative apparatuses.
- Burghart, Marjorie (2016), 'The TEI Critical Apparatus Toolbox: Empowering Textual Scholars through Display, Control, and Comparison Features', *Journal of the Text Encoding Initiative*, 10/Issue 10. DOI: 10.4000/jtei.1520, URL, accessed 12/12/2017.
 - Discussion of a software tool, including the handling of positive and negative apparatus. Makes the assumption that online displays are notational variants only.
- Burghart, Marjorie (2017), 'Textual Variants', in Marjorie Burghart et al. (eds.), *Digital Editing of Medieval Texts: A Textbook* (DEMM), URL, accessed 04/07/2021.
 - Discussion of how to express various kinds of apparatus in TEI.
- Bausi, Alessandro et al. (2015), *Comparative Oriental Manuscript Studies*. *An Introduction* (Hamburg: Tredition). DOI: 10.5281/ZENODO.46784. A huge book that disappointingly says nothing at all about Sanskrit manuscripts. Nevertheless there are many interesting case studies and remarks applicable to the Indian manuscript tradition.

Todo list

añjana	26
Cf. Arthaśāstra 1.21.8.	32
I'm still unhappy about this verse.	35
Mention this in the introduction as an example of the scribe knowing	
the vulgate	35
fn about sadyas+	35
Bear's bile instead of deer's bile.	36
punarṇṇavā in the N & K MSS	37
śrita for śṛta	37
explain more	37
Medical difference from Sharma.	37
example where the vulgate clarifies that these should be used separ-	
ately; appears to be a gloss inserted into the vulgate text	37
The two uses of prāpta are hard to translate. prāptā $h o k$ ṣipra m is an	
example of the vulgate banalizing the Sanskrit text to make sense of	
a difficult passage	38
$\sqrt{\text{vyadh not }\sqrt{\text{vedh}}}$ (also elsewhere and for the ears), causative optative.	38
opposite of the vulgate Same as 1.8.89 (As 1980: 79)	38
Medical difference.	39
Expected (Pillay 2010):	
Croton tiglium, L. = Naepala, Jayapala, kanakaphala, titteriphala (NL	
#720); Calotropis spp.;	
Citrullus colocynthus (colocynth);	
Ricinus communis (castor);	41
Note about Gayī's edition	41
-> ativișa	46
Look up the ca. reference.	46
Come back to the issue of "kalpa". Look up passages in the Kośa	54
where is cutting with a knife related to removing bile or phlegm	56
maṣī burned charcoal. Find refs.	56
find ref	62
Check out these refs	62
meaning of kalpa	62
or a dual?	67

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