Andrey Klebanov A Translation of the New Edition of the

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Kalpasthāna, adhyāya 2

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, <code>Dalhaṇa</code>, 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.¹

Dalhaṇa 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.³

Translation

- 1 And now I shall explain what should be known about stationary poisons.4
- 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.
- Traditionally, the ten are: root, leaf, fruit, flower, bark, milky sap $(k \circ \bar{\imath} ra)$, pith $(s \bar{\imath} ra)$, resin $(niry \bar{\imath} sa)$, the elements $(dh \bar{\imath} tu)$, and the tuber.
- 5 In that context,

¹ 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).

² See Wujastyk 2003: 80-81.

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

⁴ 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.

- the eight root-poisons are:
 - 1. liquorice (*klītaka*)ⁱ,⁵
 - 2. sweet-scented oleander (aśvamāraka)ⁱⁱ,6
 - 3. jequirity $(gu\tilde{n}j\bar{a})^{iii}$,7
 - 4. aconite (subhangurā)iv,8
 - 5. *karaṭā*,⁹ and ending with
 - 6. leadwort (vidyutsikhā $\rightarrow agni$ or rakta-sikhā?) v , 10
 - 7. 'endless' (ananta)vi, and
 - 8. *vijayā*, 11
- the leaf-poisons include:
 - 'poison-leaf' (viṣapatrikā)^{vii},
- Liquorice eaten in excess can be poisonous.
- The roots of sweet-scented oleander are highly toxic, as are most parts of the plant (Pillay and Sasidharan 2019).
- Jequirity does indeed contain 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.
- 8 The plant is usually called just *bhaṅgurā* without the prefix *su-* "good."
- This poisonous root cannot at present be identified. Similar-sounding candidates include *karkaṭaka*, *karaghāṭa* (emetic nut), and *karahāṭa*, 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 *karaṭa* (mn.) with safflower (*Carthamus tinctorius*, L.), but this plant does not have a poisonous root.
- 10 The roots of both rose and white leadwort are very toxic.
- 11 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 (Suvedā 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.
- Glycyrrhiza glabra, L.; see AVS 3.84, NK #1136
- ii Nerium oleander, L.; see ADPS 223, NK #1709
- iii Abrus precatorius, L.; see AVS 1.10, NK #6, Potter 168
- iv $\rightarrow bhangura = ativiṣ\bar{a}$? Aconitum ferox, Wall. ex Ser.; see NK #38
- v Plumbago zeylanica (or rosea?), L.; see NK #1966, 1967
- vi ?; see ?
- vii unknown; see?

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

Note about Gayī's edi-

- 'drum-giver' (*lambaradā*)^{viii},
- thorn apple (karambha)ix, and
- 'big thorn apple' (*mahākarambha*)^x;
- the fruits of items like: jequirity $(gu\tilde{n}j\bar{a})^{xi}$, rūṣkara $()^{xii}$, viṣa $()^{xii}$, and vedikā $()^{xiv}$, are
 - kumudavati (kumadavati)**,
 - renuka (?)xvi,
 - kurūkaka (?)^{xvii}
 - 'little bamboo' (*venuka*)^{xviii}, 12,
 - thorn apple (*karambha*)^{xix},
 - 'big thorn apple' (mahākarambha)xx,
 - 'pleaser' (nandanā) xxi,
 - 'crow' (kāka)^{xxii},
- the flower-poisons include those of:
 - rattan (vetra)^{xxiii},
 - wild chinchona (kādamba)xxiv,
 - black pepper ($vallija \rightarrow marica$)***
 - thorn apple (karambha)xxvi, and

12 Not poisonous.

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viii 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.
    ; see
хi
xii
    ; see
xiii; see
xiv; see
xv unknown; see?
xvi ?; see Piper aurantiacum Wall. (NK: #1924) is not poisonous.
xvii?; see?
xviiiBambusa bambos, Druce?; see NK #307
xix Datura metel, L.; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132.
xx Datura metel, L.?; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132.
xxi ?; see?
xxii?; see?
xxiiiCalamus rotang, L.; see AVS 1.330, NK #413
xxivAnthocephalus cadamba, Miq.; see NK #204
xxv Piper nigrum, L.?; see NK #1929; Rā.6.115, Dha.4.85, Dha.2.88
xxviDatura metel, L.; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132.
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- big thorn apple (*mahākarambha*)^{xxvii};
- the seven bark, pith $(s\bar{a}ra)$ and resin $(niry\bar{a}sa)$ poisons are:
 - 'gutboiler' (antrapācaka) xxviii,
 - 'blade' (kartarīya)^{xxix},
 - wild mustard (saurīyaka)***,
 - emetic nut $(karagh\bar{a} \dagger a \rightarrow karah\bar{a} \dagger a? \rightarrow madana)^{xxxi}$,
 - thorn apple (*karambha*)^{xxxii},
 - wild asparagus ($nandana \rightarrow bahuputr\bar{a}$?) xxxiii , and
 - munj grass (*nārācaka*)^{xxxiv};¹³
- the three milky sap ($k \bar{s} \bar{t} r a$)-poisons are:
 - purple calotropis ($kumudaghn\bar{\iota} \rightarrow arka?$)**xxv*, 14
 - oleander spurge (snuhī)xxxvi, and
 - 'web-milk' (*jālakṣīri*)^{xxxvii};
- the two element ($dh\bar{a}tu$)-poisons are:
 - 'foam-stone' (phenāśma)xxxviii, and

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xxviiDatura metel, L.?; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132. xxviiinknown; see ? xxixunknown; see ? xxx Cleome viscosa, L.? (cf. Rā.4.144); see AVS 2.116, NK #615 xxxiRandia dumetorum, Lamk.; see NK #2091 xxxiDatura metel, L.; see AVS 2.305 (cf. Abhidhānamañjarī), NK #796 ff., Potter 292 f., ADPS 132. xxxiiAsparagus racemosus, Willd.; see ADPS 441, AVS 1.218, NK #264, IGP 103, IMP 4.2499ff., Dymock 482ff. xxxiiSaccharum bengalense, Retz.?; see NK #2184 xxxvCalotropis gigantea, (L.) R. Br.; see ADPS 52, AVS 1.341, NK #427, Potter 63 xxxvIiuphorbia neriifolia, L., or E. antiquorum, L.; see ADPS 448, AVS (2.388), 3.1, NK #988, IGP 457b xxxviinknown; see ? xxxviinknown; see ?
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¹³ The bark of wild asparagus (Asparagus racemosus, Willd.) is toxic.

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.

- orpiment (haritāla)xxxix;15
- the thirteen tuber-poisons are:
 - jequirity (*kālakūta*)^{xl}, ¹⁶
 - wolfsbane (*vatsanābha*)^{xli},
 - Indian mustard (sarṣapa)xlii,
 - leadwort $(p\bar{a}laka \rightarrow citraka)^{xliii}$
 - 'muddy' (kardama)xliv, the
 - 'Virāta's plant' (*vairāṭaka*)^{xlv},
 - nutgrass (mustaka)^{xlvi}
 - atis root (śṛṅgīviṣa)^{xlvii},
 - sacred lotus (*prapuṇḍarīka*)^{xlviii},
 - radish $(m\bar{u}laka)^{xlix}$,
 - 'alas, alas' (hālāhala)¹,
 - 'big poison' (*mahāviṣa*)^{li}, and

xxxiArsenii trisulphidum; see NK v. 2, p. 20 ff.

¹⁵ Dutt (1922: 38–42) conjectured that 'foam-stone' may be impure white arsenic obtained by roasting orpiment.

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.

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

xli Aconitum napellus, L.; see AVS 1.47, NK #42, Potter 4 f.

xlii Brassica juncea, Czern. & Coss.; see AVS 1.301, NK #378

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

xliv unknown; see?

xlv unknown; see?

xlvi Cyperus rotundus, L.; see ADPS 316, AVS 2.296, NK #782

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

xlviiNelumbo nucifera, Gaertn.; see Dutt 110, NK #1698

xlix Raphanus sativus, L.; see NK #2098

¹ unknown; see Cf. Sodhalanighantu p.43 (sub bola) = stomaka = vatsanābha

li unknown; see?

• galls (karkaṭa)^{lii}.¹⁷

Thus, there are fifty-five stationary poisons.

6 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). ¹⁸

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.¹⁹ 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.

¹⁷ 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 (hālāhala) 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 hālāhala, 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 halāhil 'deadly (poison)' as a loan from Sanskrit). Mayrhofer 1953–72: iii.585 also cites a claim for an Austro-Asiatic origin for the word.

¹⁸ At 1.2.6 (Su 1938: 11), Palhaṇa glosses hoarseness (pāruṣya) as vāgrūkṣatā, "a rough, dry voice."

¹⁹ At 6.54.10 (Su 1938: 773), Dalhaṇa glosses loose stool (viḍbheda) as dravapurīṣatā, "having liquid stool."

lii Rhus succedanea, L.; see NK #2136

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

With sārṣapa ($s\bar{a}rṣapa$),²⁰ 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 ($p\bar{a}laka \rightarrow citraka$)^{lv}, there is weakness in the neck, and speech gets jumbled.²¹ With the one called 'muddy' (kardama)^{lvi}, there is a discharge (praseka), the faeces pour out, and the eyes turn yellow. The 'Virāṭa's plant' (vairāṭaka)^{lvii} 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).²²

With great aconite (*mahāviṣa*) one's limbs grow weak, there is a burning feeling and swelling of the belly.²³

-> ativișa

- With puṇḍarīka (puṇḍarīka), one's eyes go red, and one's belly becomes distended.²⁴
- With mūlaka ($m\bar{u}laka$), one's body is drained of colour and the limbs are paralysed.²⁵

Look up the ca. reference.

- 20 *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.
- The verse in the Nepalese version ends with a plural verb that does not agree with the dual of the sentence subject.
- 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 *Rājanighaṇṭu* (22 v. 42) and *Rasaratnasamuccaya* 16, v. 80. However, its ancient identity is still doubtful.
- 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.
- The word puṇḍarīka 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 Carakasaṃ-hitāci.23.12.
- 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 poison is unidentified.

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

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

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

lvi unknown; see?

lvii unknown; see?

- 17a With hālāhala (*Aconite*), a man turns a dark colour (*dhyāma*), and gasps.²⁶
- With atis root $(\acute{s}r\acute{n}g\bar{\imath}viṣa)^{lviii}$, one gets violent knots (granthi) and stabbing pains in the heart.²⁷
- 18a With markata (*monkey*), one leaps up, laughs, and bites.²⁸
- 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.²⁹
 - Because it is fast-acting it kills quickly, and because of its pervasiveness it affects one's whole physical constitution (*prakṛti*).³⁰ Because of its expansiveness it enters into the humour (*dosa*)s, bodily constituents (*dhātu*)s, and
 - 26 Identification of *hālāhala* is uncertain. It may simply be a mythical poison, or its specific identity may have been lost over the centuries. Late *nighaṇṭu*s identify it as *stomaka* = *vat-sanābha*, i.e., *Aconitum napellus*, L. (*Soḍhalanighantu* p.43). Þalhaṇa 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.
 - 27 Singh and Chunekar (1972: 407) noted that *vatsanābha* and *śṛṅgīviṣa* are two different varieties of poisonous Aconites that are difficult to distinguish.
 - 28 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.
 - We read the active *vikaroti* with Palhana against the transmitted passive *vikriyeta*, since it must be the parts of the body that are distorted, not the poison.
 - 30 Palhaṇa on 5.2.22 (Su 1938: 565) explained this as "takes the form of pervading the whole body (akhiladehavyāptirūpam)."

- 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 $(d\bar{u}_{\bar{s}}iv_{\bar{s}}a)$. 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.³³
 - 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.³⁴ 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 (*aṅgamarda*).³⁵ 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*),³⁶ dwindling away (*kṣaya*) of flesh,

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

³² Dalhana cited this verse at 1.46.83 (Su 1938: 222) while explaining dūsīvisa.

³³ 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.

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

³⁵ Dalhana 5.2.30ab (Su 1938: 565) glossed "disjunction" as the loss of function of the joints in regard to movement.

³⁶ The last ailment could perhaps be ringworm.

- swelling of the feet, hands, and face, the fever called *pralepaka*, vomiting and diarrhoea.³⁷ 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 ($d\bar{u}$ \sin \sin) is so called because it may corrupt ($d\bar{u}$ ayet) the body tissue (dhatu)s.

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 (\hat{sula}) in the stomach $(\bar{a}m\bar{a}\hat{s}aya)$, 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.
- Job In the seventh, there are breaks in his shoulders, back and loins, and he stops breathing.³⁸

³⁷ The *pralepaka* fever was described by Dalhana, at 6.39.52 (Su 1938: 675), as an accumulation of phlegm in the joints. Its symptoms are described in 6.39.54

³⁸ Here at 5.2.24 (Su 1938: 566) Dalhaṇa glossed sannirodha as "complete cessation, i.e., of breath" (sannirodhaḥ samyannirodhaḥ, ucchvāsasya iti śeṣaḥ). The manuscripts all read skanda where skandha must be intended; this confusion is known from Buddhist Hybrid Sanskrit (Edgerton 1953: 608).

Remedies for the stages of slow poisoning

- 40 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.³⁹
- In the fifth, he should be prescribed the antidote together with a decoction $(kv\bar{a}tha)$ of honey and liquorice $(madhuka)^{lix}$.
- In the sixth, the cure (*siddhi*) is the same as for diarrhoea. And in the seventh, he perishes.⁴⁰
- 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.
- 45–46 A gruel $(yav\bar{a}g\bar{u})$ made of the following items in a stewed juice $(ni\dot{h}kv\bar{a}-tha)$ destroys the two poisons: gourd $(ko\acute{s}avat\bar{\iota})$,⁴¹ wild celery (agnika),⁴²

- 41 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).
- 42 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 grave*-

³⁹ At 6.52.30 (Su 1938: 769) Dalhana noted that sindhu can be interpreted as salt (saindhava).

⁴⁰ 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 अवपीड्य. 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.

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)).

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

velvet-leaf $(p\bar{a}\rlap/th\bar{a})$,⁴³ 'sun-creeper' $(s\bar{u}ryavall\bar{\iota})$,⁴⁴ heart-leaved moonseed $(amrt\bar{a})$,⁴⁵ myrobalan $(abhay\bar{a})$,⁴⁶ siris $(\dot{s}ir\bar{\iota}sa)^{47}$, and selu plum $(\dot{s}elu)^{48}$ white siris $(kin\rlap/thi)$,⁴⁹ the two turmerics $(haridr\bar{a})$,⁵⁰ and the two Indian nightshades $(brhat\bar{\iota})$,⁵¹ hogweed, black cardamom, the three heating spices, the Indian sarsaparillas $(s\bar{a}rive)^{52}$ and water-lily (utpala).⁵³

The 'invincible' ghee

There is a famous ghee called "Invincible" (*ajeya*). It rapidly destroys all poisons and it is unbeaten. It is prepared with a mash (*kalka*) of the follow-

olens, L., but noted that others consider it to be morața, Marsdenia tenacissima (Roxb.) Wight et Arn. There is considerable complexity surrounding the identification of morața/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.

- 43 Cissampelos pariera, L., Sivarajan and Balachandran 1994: 366; Nadkarni 1954: #592; Singh and Chunekar 1972: 243–244; Warrier et al. 1994–6: 2.277.
- 44 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).
- Tinospora cordifolia, (Willd.) Hook.f. & Thoms. (Singh and Chunekar 1972: 141–143; Sivarajan and Balachandran 1994: 38–40)Nadkarni 1954: #2472 and #624.
- 46 *Terminalia chebula*, Retz. (Sivarajan and Balachandran 1994: 172; Nadkarni 1954: #2451; Singh and Chunekar 1972: 15).
- 47 *Albizia lebbeck*, Benth. (Warrier et al. 1994–6: 1.81; Nadkarni 1954: #91; Singh and Chunekar 1972: 399–400).
- 48 *Cordia myxa*, L. non Forssk. (Warrier et al. 1994–6: 2.180; Nadkarni 1954: #672; Singh and Chunekar 1972: 408, 413–414).
- 49 Albizia procera, (Roxb.) Benth. (Nadkarni 1954: #93; Singh and Chunekar 1972: 98).
- 50 *haridrā* and *dāruharidrā* Singh and Chunekar 1972: 465–466.
- 51 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).
- 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.
- 53 *Nymphaea stellata*, Willd. GJM 528, IGP 790; Dutt 110, NK #1726. Dalhana was aware of this reading 5.2.46 (Su 1938: 566).

ing plants: liquorice, crape jasmine, costus, deodar, black cardamom, Indian madder, cardamom and cherry, cobra's saffron, water-lily, white clitoria, embelia, sandalwood, cassia cinnamon, beautyberry, rosha grass, the two turmerics,⁵⁴ the two Indian nightshades,⁵⁵ Indian sarsaparilla, beggarweed, and country mallow.

Curing the 'slow-acting' poison

- Someone suffering from 'slow-acting poison $(d\bar{u}\bar{s}\bar{\imath}vi\bar{s}a)$ ' 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 $(pippal\bar{\imath})^{lx}$, rosha grass $(dhy\bar{a}maka)^{lxi}$, spikenard $(m\bar{a}ms\bar{\imath})^{lxii}$, lodh tree $(s\bar{a}vara \to lodhra)^{lxiii}$, nutgrass $(paripelava \to plava \to must\bar{a}?)^{lxiv}$, soda crystals $(suvarcik\bar{a} \to suvarjik\bar{a})^{lxv}$, cardamom $(s\bar{u}ksmail\bar{a})^{lxvi}$, 'scented pavonia' $(toya \to b\bar{a}laka)^{lxvii}$, and 'gold-chalk' ochre (kanakagairika). This antitoxin, taken with honey, eliminates 'slow-acting poison'. It is called 'slow-acting poison antidote $(d\bar{u}s\bar{\imath}vis\bar{a}ri)$ ', and there is no situation where it is not recommended.
- 53–54 If there are any side-effect (*upadrava*)s, such as fever, a burning feeling, hiccups, constipation (*ānāha*), depletion of the semen, distension, diarrhoea, fainting, illness in the heart, bellyache (*jaṭhara*), madness, trembling, or others, then one should treat each one in its own terms, as well as using the anti-toxic medicines.
 - 'Slow-acting poison' is curable (*sādhya*) if caught immediately; it is treatable (*yāpya*) if it is of a year's standing; but it cannot be cured in someone who has unhealthy habits or who is weak (*ksīṇa*).

Thus ends the second chapter, called 'on the knowledge of stationary poisons', in the Procedures Section of Suśruta's *Compendium*.

^{??} and Indian barberry.

⁵⁵ poison berry and yellow-berried nightshade.

lx Piper longum, L.; see ADPS 374, NK #1928

lxi Cymbopogon martinii (Roxb.) Wats; see AVS 2.285, NK #177

lxii Nardostachys grandiflora, DC.; see NK #1691

lxiii Symplocos racemosa, Roxb.; see ADPS 279, NK #2420

lxiv Cyperus rotundus, L.; see ADPS 316, AVS 2.296, NK #782

lxv Sodium carbonate; see NK 2, p. 101

lxvi Elettaria cardamomum, Maton; see AVS 2.360, NK #924, Potter 66

lxviiPavonia odorata, Willd.; see ADPS 498, NK #1822

Abbreviations

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

Anup Sanskrit Library (n.d.).

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AS Asiatic Society (n.d.).

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BL British Library (n.d.).

Ca. 1941 Ācārya, Yādavaśarma Trivikrama (1941) (ed.), महर्षिणा पुनर्वसुनोपदि-ष्टा, तच्छिष्येणाग्निवेशेन प्रणीता, चरकदृढबलाभ्यां प्रतिसंस्कृता चरकसंहिता, श्रीचक्रपाणिदत्तविरचितया आयुर्वेददीपिकाव्याख्यया संविलता (3rd edn., Mumbayyāṃ: Nirnaya Sagara Press), URL, accessed 01/01/2018.

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

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-किल्पत आयुर्वेद. भगवता धन्व-न्तरिणोपदिष्टः सुश्रुतनामधेयेन तच्छिष्येण विरचितः (3rd edn., Calcutta: Saratī Press), ark:/13960/t1nh6j09c; HIML: IB, 311, edition b.

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- Su 1938 Ācārya, Yādavaśarma Trivikrama and Ācārya, Nārāyaṇa Rāma (1938) (eds.), श्रीडल्हणाचार्यविरचितया निबन्धसंग्रहाख्यव्याख्यया निदानस्थानस्य श्रीगयदासाचार्यविरचितया न्यायचन्द्रिकाख्यपञ्जिकाव्याख्यया च समुष्ठसिता महर्षिणा सुश्रुतेन विरचिता सुश्रुतसंहिता (3rd edn., Bombay: Nirṇayasāgara Press), ark:/13960/t09x0sk1h; HIML:IB, 313, edition cc ('the vulgate').
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Glossary

'gold-chalk' ochre	antidote	- kvātha: 13
- kanakagairika: 15	- agada: 13	delirium
'sun-creeper'	antra	- moha: 8
- sūryavallī: 14	- gut: 12	dhātu
"invincible"	arocaka	- bodily constiuents:
- ajeya: 14	-loss of appetite: 11	10 - body tissue: 12
abhayā	be exhausted	- element: 3, 6, 8
- myrobalan: 14	- sāda: 12	dhyāma
Aconite	bellyache	- dark colour: 10
- hālāhala: 10	- jaṭhara: 15	discharge
ādhmāna	black creeper	- praseka: 9
- distension: 8	- pālindī: 14	disjunction
agada	bodily constiuents	- viśleṣa: 11
- antidote: 13	- dhātu: 10	distension
agnika	body tissue	- ādhmāna: 8
- wild celery: 13	- dhātu: 12	doșa
ajamodā	bṛhatī	- humour: 10
- wild celery: 13	- indian nightshades:	dry
ajeya	14	- rūkṣa: 10
- "invincible": 14	- poison berry: 14	dūṣī-viṣa
akhiladehavyāptirūpam	bruising of the limbs	- slow-acting poison:
- takes the form of	- aṅgamarda: 11	12
pervading the whole		dūṣīviṣa
body: 10	chest	- slow-acting poison:
āmāśaya	- hṛd: 12	15
- stomach: 11f	chyle	dūṣīviṣāri
amṛtā	- rasa: 11	- slow-acting poison
- heart-leaved	constipation	antidote: 15
moonseed: 14	- ānāha: 9, 12, 15	dușyodara
ānāha	contamination dropsy	- contamination
- constipation: 9, 12,	- dușyodara: 11	dropsy: 11
15	country sarsaparilla	dwindling away
anantā	- anantā: 14	- kṣaya: 11
- country	crow's foot	- ĸṣu yu. 11
sarsaparilla: 14	- kākapada: 13	element
aṅgamarda	curable	- dhātu: 3, 6, 8
- bruising of the	- sādhya: 15	expansive
limbs: 11	cure	- vikāsin: 10
añjana	- siddhi: 13	eye salve
- eye salve: 13	- stuant. 13	- añjana: 13
annamada	dark colour	- unjunu. 13
- intoxication from	- dhyāma: 10	gourd
food: 11	decoction	- kośavatī: 13
1004. 11	accocnon	Rosavatt. 13

granthi	kākapada	maṇḍala
- knots: 10	- crow's foot: 13	- round blotches: 11
-lumps: 9	kalka	markata
great aconite	- mash: 14	- monkey: 10
- mahāviṣa: 9	kanakagairika	mash
great poison	- 'gold-chalk' ochre:	- kalka: 14
- mahāviṣa: 9	15	milky sap
gruel	kapha	- kṣīra: 3, 6, 8
- yavāgū: 13	- phlegm: 8, 11f	mobile
guṇa	kinihi	- jaṅgama: 3
- qualities: 10	- white siris: 14	moha
gut	knots	- delirium: 8
- antra: 12	- granthi: 10	monkey
anti a. 12	kośavatī	- markaṭa: 10
hālāhala	- gourd: 13	mūlaka
- Aconite: 10	kotha	- mūlaka: 9
	- skin disease: 11	mūlaka
haridrā	kṣaya	- mūlaka: 9
- turmerics: 14	- dwindling away: 11	mustaka
harşa	ksīna	- mustaka: 9
- horripilation: 11	- weak: 15	mustaka
heart-leaved moonseed	ksīra	- mustaka: 9
- amṛtā: 14	- milky sap: 3, 6, 8	myrobalan
hoarseness	kşudrā	- abhayā: 14
- pāruṣya: 8	- yellow-berried	worldy at 14
horripilation	nightshade: 14	nasal medicine
- harṣa: 11	kuṣṭha	- nasya: 13
hṛd	- pallid skin disease:	nasya
- chest: 12	12	- nasal medicine: 13
humour	kvātha	niḥkvātha
- doṣa: 10	- decoction: 13	- stewed juice: 13
	decoelion. 13	niryāsa
indian nightshades	limpid	- resin: 3, 6, 8
- bṛhatī: 14	- viśada: 10	3, ,
indian sarsaparillas	liṅga	pain
- sārive: 14	- symptoms: 11	- śūla: 12
intestines	loose stool	pakvādhāna
- pakvādhāna: 12	- viḍbheda: 8	- intestines: 12
- pakvāśaya: 11	loss of appetite	pakvāśaya
intoxication from food	- arocaka: 11	- intestines: 11
- annamada: 11	lumps	pālindī
	- granthi: 9	- black creeper: 14
jaṅgama	6 <i>)</i>	pallid skin disease
- mobile: 3	mahāviṣa	- kuṣṭha: 12
jaṭhara	- great aconite: 9	parśvabheda
- hellvache: 15	- great noison: o	- ribs crack: 12

pāruṣya	- salt: 13	- rarified: 10
- hoarseness: 8	salt	śūla
pāṭhā	- saindhava: 13	- pain: 12
- velvet-leaf: 14	sāra	sūryavallī
pervasive	- pith: 3, 6, 8	- 'sun-creeper': 14
- vyavāyin: 10	sārive	svāpa
phlegm	- indian sarsaparillas:	- sleep: 8
- kapha: 8, 11f	14	śvāsa
pith	sārṣapa	- wheezing: 8
- sāra: 3, 6, 8	- sārṣapa: 9	symptoms
poison berry	sārṣapa	- liṅga: 11
- bṛhatī: 14	- sārṣapa: 9	
pralāpa	selu plum	takes the form of
- ranting: 8	- śelu: 14	pervading the whole
praseka	śelu	body
- discharge: 9	- selu plum: 14	-
puṇḍarīka	siddhi	akhiladehavyāptirūpam:
- puṇḍarīka: 9	- cure: 13	10
puṇḍarīka	side-effect	treatable
- puṇḍarīka: 9	- upadrava: 15	- yāpya: 15
2 11	siris	turmerics
qualities	- śirīṣa: 14	- haridrā: 14
- guṇa: 10	śirīṣa	
	- siris: 14	udveșțana
rājimat	skin disease	- writhing: 8
- striped snake: 13	- koṭha: 11	upadrava
ranting		- side-effect: 15
- pralāpa: 8	sleep	utpala
rarified	- svāpa: 8	- water-lily: 14
- sūkṣma: 10	slow-acting poison antidote	
rasa		velvet-leaf
- chyle: 11	- dūṣīviṣāri: 15	- pāṭhā: 14
resin	slow-acting poison	viḍbheda
- niryāsa: 3, 6, 8	- dūṣī-viṣa: 12	- loose stool: 8
ribs crack	- dūṣīviṣa: 15	vikāsin
- parśvabheda: 12	stationary	- expansive: 10
round blotches	- sthāvara: 3	viśada
- maṇḍala: 11	stewed juice	-limpid: 10
rūkṣa	- niḥkvātha: 13	viśleṣa
- dry: 10	sthāvara	- disjunction: 11
	- stationary: 3	vyavāyin
sāda	stomach	- pervasive: 10
- be exhausted: 12	-āmāśaya: 11f	•
sādhya	striped snake	water-lily
- curable: 15	- rājimat: 13	- utpala: 14
saindhava	sūkṣma	weak

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- kṣīṇa: 15
                                        - agnika: 13
                                                                            - treatable: 15
wheezing
                                        - ajamodā: 13
                                                                       yavāgū
     - śvāsa: 8
                                   writhing
                                                                            - gruel: 13
                                                                       yellow-berried
white siris
                                        - udvestana: 8
                                                                           nightshade
    - kinihi: 14
wild celery
                                                                            - kṣudrā: 14
                                   yāpya
```

Glossary of Plants

- **beautyberry** śyāmā \rightarrow priyaṅgu. Callicarpa macrophylla, Vahl.. See AVS 1.334, NK #420 15
- **beggarweed** Desmodium gangeticum (L.) DC (Dymock 1.428, GJM 602, NK #1192; ADPS 382, 414 and AVS 2.319, 4.366 are confusing) 15
- **black cardamom** hareņu. Amomum subulatum, Roxb.?. See PVS Caraka 2.734, AVS 1.128, NK #154 14, 15
- cardamom elā. Elettaria cardamomum, Maton. See AVS 2.360, NK #924, Potter 66 15
- cassia cinnamon patra. Cinnamomum tamala, (Buch.-Ham.) Nees. See AVS 2.84, NK # 15
- cherry elavāluka. Prunus cerasus, L.?. See BVDB 58, NK #2037, Singh and Chunekar 1972: 58 15
- cobra's saffron nāgapuspa. Mesua ferrea, L.. See NK #1595 15
- costus kustha. Saussurea costus, Clarke. See NK #2239 15
- country mallow balā. Sida cordifolia, L.. See ADPS 71, NK #2297 15
- **crape jasmine** crape jasmine. Tabernaemontana divaricata (L.) R.Br. ex Roem. & Schultes. See GJM 557, AVS 5.232 15
- **deodar** bhadradāru. Cedrus deodara, (Roxb.ex D.Don) G. Don. See AVS 41, NK #516 15
- embelia viḍaṅga. Embelia ribes, Burm. f.. See ADPS 507, AVS 2.368, NK #929, Potter 113 15

- **hogweed** punarnavā. Boerhaavia diffusa, L.. See ADPS 387, AVS 1.281, NK #363
- **Indian barberry** dāruharidrā. Berberis aristata, DC.. See Dymock 1.65, NK #685, GJM 562, IGP 141 15
- **Indian madder** mañjiṣṭhā. Rubia cordifolia, L.. See IGP, GIMP 215, Singh and Chunekar 1972: 289 15
- 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) 15
- liquorice madhuka. Glycyrrhiza glabra, L.. See AVS 3.84, NK #1136 15
- poison berry bṛhatī. Solanum violaceum, Ortega. See ADPS 100, NK #2329, AVS 5.151 15
- rosha grass dhyāmaka. Cymbopogon martinii (Roxb.) Wats. See AVS 2.285, NK #177 15
- sandalwood candana. Santalum album, L.. See ADPS 111, NK #2217 15
- three heating spices śuṇṭhī (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 14
- water-lily utpala. Nymphaea stellata, Willd.. See GJM 528, IGP 790; Dutt 110, NK #1726 15
- white clitoria sitā \rightarrow śvetā? Clitoria ternatea, L.. See AVS 2.129, NK #621 15
- yellow-berried nightshade kṣudrā. Solanum virginianum, L.. See ADPS 100, NK #2329, AVS 5.164 15

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

	Expected (Pillay 2010):	
	Croton tiglium, L. = Naepala, Jayapala, kanakaphala, titteriphala (NL	
	#720); Calotropis spp.;	
	Citrullus colocynthus (colocynth);	
	Ricinus communis (castor);	4
	Note about Gayī's edition	4
	-> ativișa	9
Ī	Look up the ca. reference	9

Draft of May 26, 2022 for Drivate study only