A Translation of the New Edition of the Suśrutasaṃhitā

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Sūtrasthāna, adhyāya 13: On Leeches

Literature

Previous scholarship

Meulenbeld offered an annotated overview of this chapter and a bibliography of studies on Indian leeches and their application.⁴⁹

A Persian version of this chapter of the $Su\acute{s}rutasamhit\bar{a}$ was included in $Sikandar~Sh\bar{a}h's~Mine~of~Medicine~(Ma'din~al-shifa'~i~Sikandar-Shah\bar{a}h\bar{\iota})$ composed in 1512 by Miyān Bhūwah b. Khawāṣṣ Khān. 50

More recently, Brooks has explored the sense of touch in relation to leeching and patient-physician interactions.⁵¹

Translation

- 1 And now we shall explain the chapter about leeches.
- The leech is for the benefit of kings, rich people, delicate people, children, the elderly, fearful people and women. It is said to be the most gentle means for letting blood.
- 4 In that context, one should let blood that is corrupted by wind, bile or phlegm with a horn, a leech, or a gourd, respectively. Or, each kind can be be made to flow by any of them in their particular way.⁵²
- 5x And there are the following about this:

There is an insertion in the text, printed in parentheses in the vulgate at 1.13.4 (Su 1938: 55) as विशेषतस्तु विस्राव्यं शृङ्गजलोकालानुभिगृह्णीयात्. This insertion is not included in the earlier edition of the vulgate, but is replaced by स्निग्धशीतरूक्षत्वात् (Su 1931: 54). Dalhaṇa noted that, "this reading is discussed to some extent by some compilers (नि-वन्यकार), but it is definitely rejected by most of them, including Jejjhaṭa."

⁴⁹ HIML: IA, 209; IB, 324, n. 131.

⁵⁰ Siddiqi 1959: 96–109; Azeez Pasha 1971; Storey 1971: 231–232; HIML: IB, 324, n. 128; Speziale 2019: 8–9.

⁵¹ Brooks 2020*a,b,c*.

⁵² This sentence is hard to construe grammatically, although its meaning seems clear. In place of विशेषस्त, Cakrapāṇidatta and Dalhaṇa both read विशेषतस, which helps interpretation (Su 1939: 95, Su 1938: 55). It is notworthy that the critical syllable स्तु is smudged or corrected in both MS Kathmandu NAK 1-1079 and in 1-1146, a much later Devanāgarī manuscript.

- 1.13.5 The horn of cows is praised for being unctuous, smooth, and very sweet. Therefore, when wind is troubled, that is good for bloodletting.⁵³
- 1.13.5a Having a length of seven fingers and a large body the shape of a half moon, should first be placed into a cut. A strong person should suck with the mouth.⁵⁴
 - 6 A leech lives in the cold, is sweet and is born in the water. So when someone is afflicted by bile, they are suitable for bloodletting.⁵⁵
 - 7 A gourd is well known for being pungent, dry and sharp. So when someone is afficted by phlegm it is suitable for bloodletting.
 - 8 In that context, at the scarified location one should let blood using a horn wrapped in a covering of a thin bladder, or with a gourd with a flame inside it because of the suction.⁵⁶
 - 9 Leeches are called "jala-ayu-ka" because water (jala) is their life (āyur).⁵⁷ "Home" (okas) means "dwelling;" their home is water, so they are called "water-dwellers (jalaukas)."
 - There are twelve of them: six are venomous and just the same number are non-venomous.
 - 11 Here is an explanation of the poisonous ones, together with the therapy:
 - Black (kṛṣṇā)
 - Mottled (karburā)
 - Sting-gush (alagarddā)⁵⁸

- This passage is not found in the vulgate, but it is similar to the passage cited by Dalhaṇa at 1.13.8 (Su 1938: 56) and attributed to Bhāluki. Bhāluki was the author of a *Bhālukitantra* that may have predated Jejjaṭa and might even have been one of the sources for the *Suśrutasaṃhitā* (HIML: v. IA, 689–690 *et passim*). The editor Ācārya was aware of this reading in the Nepalese manuscripts; see his note 4 on 1.13.5 (Su 1938: 55, note 4).
- Note that the particular qualities (*guṇas*) of the leech in this and the following verses counteract the quality of the affliction. See Brooks 2018: 113, table 1.
- There are questions about the wrapping or covering of the horn. Other versions of the text, and the commentator, propose that there may be two coverings, or that cloth may be a constituent. Comparison with contemporary horn-bloodletting practice by traditional Sudanese healers suggests that a covering over the top hole in the horn is desirable when sucking, to prevent the patient's blood entering the mouth (PBS 2020). Our understanding of this verse is that the bladder material is used to cover the mouthpiece and then to block it, in order to preserve suction in the horn for a few minutes while the blood is let.
- 57 This is a folk etymology.
- 58 Treating गर्दो as गल्दा and translating as in RV 8.1.20, with Jamison and Brereton

⁵³ The vulgate replaced "smooth" with "hot."

- Rainbow (*indrāyudhā*)
- Oceanic (*sāmudrikā*)
- Cow-praising (*govandanā*)⁵⁹

Amongst these,

- The one called a Black is the colour of kohl and has a broad head;
- The one called Mottled is like the Indian mottled eel, long with a segmented (*chinna*), humped belly.
- The one called Sting-gush is hairy, has large sides and a black mouth.
- The one called Rainbow is coloured like a rainbow, with vertical stripes.
- The one called Oceanic is slightly blackish-yellow, and is covered with variegated flower patterns.
- The one called Govandana is like a cow's testicles, having a bifurcated form on the lower side, and a tiny mouth.

When someone is bitten by them, the symptoms are: a swelling at the site of the bite, excessive itching and fainting, fever, a temperature, and vomiting. In that context the Great Antidote ($mah\bar{a}gada$) should be applied in drinks and liniments ($\bar{a}lepana$), etc.⁶⁰ A bite by the Rainbow leech is not treatable. These venomous ones have been explained together with their remedies.

- Now the ones without poison.⁶¹
 - Tawny (kapilā)
 - Ruddy (piṅgalā)
 - Dart-mouth (śańkumukhī)
 - Mouse (*mūṣikā*)
 - Lotus-mouth (puṇḍarīkamukhī)
 - Sāvarikā (sāvarikā)

Amongst these,

^{(2014: 1023,} verse 20 and cf. commentary). But if गर्द is to be taken from $\sqrt{\eta \xi}$ then we might have "crying from the sting."

⁵⁹ The manuscripts all read गोवन्दना against the vulgate's गोचन्दना.

⁶⁰ The "Great Antidote" is described in the Kalpasthāna, at 5.5.61–63ab (Su 1938: 578). Palhaṇa and the vulgate included errhines in the list of therapies, and Palhaṇa added that "etc." indicated showers and baths too.

⁶¹ The translations of the names of these leeches are slightly whimsical, but give a sense of the original; *sāvarikā* remains etymologically puzzling.

- The one called Tawny has sides that look as if they are dyed with realgar and is the colour of glossy mung beans on the back. 62
- The one called Ruddy is a bit red, has a round body, is yellowish, and moves fast.
- The one called Dart-mouth is the colour of liver, drinks fast and has a long mouth.
- The one called Mouse is the colour and shape of a mouse and has an undesirable smell.
- The one called Lotus is the colour of mung beans and has a mouth that looks like a lotus.
- The one called Sāvarikā has the colour of a lotus leaf and is eighteen centimetres long. But that one is used when the purpose is an animal.

The non-venomous ones have been explained.

13 Their lands are Yavana, Pāṇḍya, Sahya, Potana and so on.⁶³ Those in

Some scholars have identified the name with modern Bodhan in Telangana (Sircar 1971: 189; Schwartzberg, Bajpai, et al. 1978: E6, p. 14, 140 *et passim*; Sen 1988: 102), but this implausible identification is traceable to a speculative suggestion by Raychaudhuri (1953: 89, n. 5, 143) based on a variant form "Podana" found in some early manuscripts of the *Mahābhārata*: "This name reminds one of Bodhan in the Nizam's dominions," "possibly to be identified with Bodhan."

Dalhaṇa on 1.13.13 (Su 1938: 57) anachronistically identified "Yavana" as the land of the Turks (বুক্জ) and "Pautana" as the Mathurā region. He also noted, as did Cakrapāṇidatta, that this passage was not included by some authorities on the grounds that the habitats of poisonous and non-poisonous creatures are defined by other criteria.

⁶² The compound स्निग्धमुद्भवण्णों is supported by all the manuscript witnesses and is translated here. Nevertheless, the reading of the vulgate, that separates स्निग्धा, f., "slimy" as an adjective for the leech, seems more plausible: "it is slimy and the colour of a mung bean."

This passage is discussed by Karttunen (2015: 109–110, 388–389). At the time of the composition of the *Suśrutasaṃhitā*, Yavana would most likely have referred the Hellenistic Greek diaspora communities in Bactria and India (Law 1984: 136–137; Mairs 2013; 2014). Unproblematically, the Pāṇḍya country is the extreme south-eastern tip of the Indian subcontinent (Schwartzberg, Bajpai, et al. 1978: E8, p. 20 et passim), and Sahya refers to the Western Ghats (Schwartzberg, Bajpai, et al. 1978: D5–7, p. 20 et passim). The vulgate reading "Pautana" is not a known toponymn. Potana was the ancient capital of the Aśmaka Mahājanapada mentioned in Pali sources and in inscriptions at Ajāntā and elsewhere, and identified by Law (1984: 142, 179) and P. Gupta (1989: 18) with Pratiṣṭhāna, modern Paithan on the Godavari river. The recurring ancient epithet describing the Aśmaka kingdom is that it was on the Godāvarī, and Paithan is flanked to the south west and south east by this river.

particular have large bodies and are strong, they drink rapidly, consume a lot, and are without venom.

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Anup Anup Sanskrit Library.

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AS Asiatic Society.

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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), ark:/13960/s2kbk5zcrg9.

KL Kaiser Library.

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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.

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. Searchable at https://vmlt.in/ncc/.

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

RORI Rajasthan Oriental Research Institute.

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

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TMSSML

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Glossary

cow-praising	- water-dwellers:	piṅgalā
-govandanā: 23	22	-ruddy: 23
		puṇḍarīkamukhī
alagarddā	kapilā	-lotus-mouth: 23
- sting-gush: 22	- tawny: 23	rainbow
ālepana - liniments: 23	karburā	- indrāyudhā: 23
āyur	- mottled: 22	ruddy
- life: 22	kṛṣṇā - black: 22	- piṅgalā : 23
black	life	sāmudrikā
- kṛṣṇā: 22	-āyur: 22	- oceanic: 23 śaṅkumukhī
chinna - segmented: 23	liniments - ālepana: 23	- dart-mouth: 23 sāvarikā
dart-mouth - śańkumukhī : 23	lotus-mouth - puṇḍarīkamukhī: 23	- sāvarikā: 23 sāvarikā <i>- sāvarikā</i> : 23
govandanā - cow-praising: 23 great antidote	mahāgada - great antidote: 23 mottled	segmented - chinna: 23 sting-gush
- mahāgada: 23	- karburā: 22 mouse	- alagarddā: 22
indrāyudhā - rainbow: 23	- mūṣikā : 23 mūṣikā	tawny - kapilā: 23
-	-mouse: 23	water
jala		- jala: 22
- water: 22	oceanic	water-dwellers
jalaukas	-sāmudrikā: 23	- jalaukas: 22

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IGP Griffiths, Mark (1994), *The New Horticultural Society Index of Garden Plants* (London: Macmillan).

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K&B Kirtikar, K. R., Basu, B. D., and an I.C.S (1987), *Indian Medicinal Plants*, ed. E. Blatter, J. F. Caius, and K. S. Mhaskar, 8 vols. (2nd edn., Dehradun: International Book Distributors); First published in Allahabad, 1918.

NK Nadkarni, K. M. (1982), 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; First published in 1954.

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Glossary and Index of Medical Substances

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amaranth (taṇḍulīyaka) Amaranthus
                                                blackbuck (harina) Antilope cervicapra, L.
   hypochondriacus, L. See King 321,
                                                   See BIA: 270 IW: 95, 165, et passim, 35
   NK: v. 1, #144, Potter<sub>rev</sub>: 15. Cf.
                                                cardamom (elā) Elettaria cardamomum,
   AVS: v. 1, 121, 32
                                                   Maton. See AVS: v. 2, 360, NK: v. 1,
axlewood (dhava) Anogeissus latifolia
                                                   #924, Potter<sub>rev</sub>: 66, 49, 53
   (Roxb. ex DC.) Wall. ex Guill & Perr.
                                                cassia cinnamon (patra) Cinnamomum
   See AVS: v. 1, 163 f, Chopra: 20, 52
                                                   tamala, (Buch.-Ham.) Nees. See
bamboo leaves (venupatrikā) Bambusa
                                                   AVS: v. 2, 84, NK: v. 1, #589, 32, 49
   bambos, Druce. See NK: v. 1, #307, 32
                                                castor oil tree (gandharvahasta) \rightarrow eranda.
                                                   GVDB: 135, K&B: v. 3, 2277, 26
beautyberry (priyangu) \leftarrow \acute{s}y\bar{a}m\bar{a}.
                                                castor-oil (eranda) Ricinus communis, L.
   Callicarpa macrophylla, Vahl. See
                                                   See NK: v. 1, #2145, Chopra: 214, 31
   AVS: v. 1, 334, NK: v. 1, #420. Some say
   also Setaria italica Beauv.
                                                certain minerals (tārāvitāra) Unknown. It
   GVDB: 263–264. See also GVDB: 413,
                                                   is not even certain that these are
                                                   minerals. The variant reading in the
                                                   vulgate, tārah sutārah was glossed by
beautyberry (śyāmā) Callicarpa
                                                   Dalhana on 5.3.14 (Su 1938: 568) as
   macrophylla, Vahl. See AVS: v. 1, 334,
   NK: v. 1, #420, 30, 32
                                                   follows tāro rūpyam, sutārah pāradah,
                                                   "tāra means silver; sutāra means
beggarweed (amśumatī) Desmodium
                                                   mercury.", 53
   gangeticum (L.) DC
                                                chebulic myrobalan (harītakī) Terminalia
   (Dymock: v. 1, 428, GJM1: 602, NK: v. 1,
   #1192; ADPS: 382, 414 and
                                                   chebula Retz. GVDB: 466, 31
                                                cherry (elavālu) Prunus cerasus, L.?. See
   AVS: v. 2, 319, 4.366 are confusing), 49
                                                   BVDB 58, NK: v. 1, #2037, GVDB: 58, 49
beggarweed (vid\bar{a}rigandh\bar{a}) \rightarrow s\bar{a}laparn\bar{i}.
                                                chital deer (prsata) Axis axis, Erxleben.
   Desmodium gangeticum (L.) DC. See
                                                   See BIA: 292, IW: 93, 35
   Dymock: v. 1, 428, GJM1: 602, cf.
   NK: v. 1, #1192; ADPS: 382, 414 and
                                                cobra's saffron (n\bar{a}gapuspa) \rightarrow n\bar{a}gakeśara.
                                                   Mesua ferrea, L. See NK: v. 1, #1595,
   AVS: v. 2, 319, 4.366 are confusing, 29
                                                   GVDB: 220, 49
black creeper (pālindī) Ichnocarpus
                                                corky coral tree (pāribhadra) Erythrina
   frutescens, (L.) R.Br. or Cryptolepis
   buchanani, Roemer & Schultes. See
                                                   suberosa Roxb. See GVDB 245, 52
   AVS: v. 3, 141, 3.145, 3.203, NK: v. 1,
                                                costus (kuṣṭha) Saussurea costus, Clarke.
   #1283, 1210, ADPS: 434, 32, 35, 48, 49
                                                   See NK: v. 1, #2239, 32, 49, 53
blackboard tree (saptachada) Alstonia
                                                country mallow (atibalā) Abutilon
   scholaris R. Br. GVDB: 420, 31
                                                   indicum, (L.) Sweet, but may be other
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kinds of mallow, e.g., Sida rhombifolia,
   L.. See NK: v. 1, #11, IGP: 1080, NK: v. 1,
   #2300, ADPS: 71, 77, 29
country sarsaparilla (anantā)
   Hemidesmus indicus, (L.) R. Br. See
   ADPS: 434, AVS: v. 3, 141-5, NK: v. 1,
   #1210. But see GVDB: 13 for
   complications that may suggest that it
   is to be equated with sārivā, which may
   sometimes be Cryptolepis or
   Ichnocarpus fruitescens R. Rr.
   (GVDB: 429-431), 29, 37, 48, 49, 52
crape jasmine (tagara) Tabernaemontana
   divaricata (L.) R.Br. ex Roem. &
   Schultes. See GJM1: 557, AVS: v. 5, 232.
   Synonym of ??. But some say Valeriana
   jatamansi, Jones See GVDB: 173–174 for
   discussion (and charming comments
   on brain liquid testing). Some say
   tagara is Indian rose-bay or Indian
   valerian, but there remain many
   historical questions about the ancient
   and regional identities of this plant See,
   e.g., AVS: v. 5, 334, 32, 49, 106
crimson trumpet-flower tree (pāṭalā)
   Stereospermum chelonides, (L. f.) A.
   DC. See GJM1: 573, AVS: v. 5, 192 ff,
   ADPS: 362 f, AVS: v. 3, 1848 f, IGP 1120,
   Dymock: v. 3, 20 ff, 52
cuscus grass (uśīra) Andropogon
   murcatus, Retz. Also "vetiver grass."
   See NK: v. 1, #180, 32
datura (dhattūra) Datura metel, L. See
   AVS: v. 2, 305 (cf. Abhidhānamañjarī),
   NK: v. 1, #796 ff. Potter<sub>rev</sub>: 292 f,
   ADPS: 132, 26
decanted liquor (surāmaṇḍa)
   K&B: v. 2, 502, NK: v. 2, appendix VI,
   #49, 28
deodar (bhadradāru) Cedrus deodara,
   (Roxb.ex D.Don) G. Don. See AVS 41,
   NK: v. 1, #516, 49
elixir salve (ras\bar{a}\tilde{n}jana) \rightarrow a\tilde{n}jana. See
   Indian barberry, 31
embelia (vidanga) Embelia ribes, Burm. f.
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See ADPS: 507, AVS: v. 2, 368, NK: v. 1,
  #929, Potter<sub>rev</sub>: 113, 49
emetic nut (madana) Randia dumetorum,
  Lamk. See NK: v. 1, #2091, 30
false daisy (subhangurā) (su)bhangura =
  bhṛṅga? Eclipta prostrata (L.) L. See
  GVDB: 288, 37
fermented rice-water (dh\bar{a}ny\bar{a}mla) \rightarrow k\bar{a}\tilde{n}j\bar{\imath},
  kānjikā, sauvīra. GVDB: 458, NK: v. 2,
  appendix VI, #18, 28
fern (ajaruhā) Nephrodium species
  GVDB: 7, uncertain. Perhbaps
  Christella dentata(Forssk.) Brownsey
   & Jermy, which is reported to have folk
  applications against skin diseases in
  India, 34
fire-flame bush (dhātakī) Woodfordia
  fruticosa (L.) Kurz. See AVS: v. 5, 412,
  NK: v. 1, #2626, 31
garjan oil tree (aśvakarna) Dipterocarpus
  turbinatus Gaertn. f. See GVDB: 28,
  Chopra: 100, 52
giant potato (k \bar{s} \bar{\imath} r a v i d \bar{a} r \bar{\imath}) possibly \rightarrow
  kṣīraśukla. Ipmoea mauritiana, Jacq.
  See ADPS: 510, AVS: v. 3, 222, AVS: v. 3,
  1717 ff, 106–108
ginger (mahauṣadha) Zingiber officinale,
  Roscoe. See ADPS: 50, NK: v. 1, #2658,
  IGP: 1232, 35
gold (hema) gold, 49
gold and sarsaparilla (surendragopa)
   Unknown. Dalhana on 5.3.15
   (Su 1938: 568) glossed surendra as
   "gold" and gopā as "Indian
  sarsaparilla." He also noted other
  opinions that surendra was "Tellicherry
  bark", 53
golden shower tree (rājadruma) rājadruma
   = āragvadha. Cassia fistula L. See
  GVDB 37, 52
gourd (alābu) Lagenaria siceraria Standl.
  GVDB: 25. Some say Lagenaria
  vulgaris, Seringe (NK: v. 1, #1419) but
  this is not appropriate for blood-letting,
  21, 22, 30
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heart-leaf sida (balā) Sida cordifolia, Linn.
   See ADPS: 71, NK: v. 1, #2297, 29, 49
heart-leaved moonseed (amrt\bar{a}) \rightarrow gud\bar{u}c\bar{\iota}.
   Tinospora cordifolia, (Willd.) Hook.f.
   & Thoms.?. See ADPS: 38, NK: v. 1,
   #2472, 624, Dastur #229, 32, 47
heart-leaved moonseed (somavallī)
   Tinospora cordifolia (Thunb.) Miers.
   GVDB: 456. Likely, but uncertain, 32
henna (madayantikā) Lawsonia inermis, L.
   See AVS: v. 3, 303, NK: v. 1, #1448,
   Potter<sub>rev</sub>: 151, 33
Himalayan mayapple (vakra)
   Podophyllum emodi, Wall.
   (NK: #1971). But perhaps a synonm of
   crape jasmine and ?? (GVDB: 354), 53
Himalayan monkshood (ativisā)
   Aconitum heterophyllum Wall.
   GVDB: 12, NK: v. 1, #39. Also "atis
   roots", 33, 35, 53
hogweed (punarnavā) Boerhaavia diffusa,
   L. See ADPS: 387, AVS: v. 1, 281,
   NK: v. 1, #363, 33, 47
Holostemma creeper (j\bar{\imath}vant\bar{\imath}) \rightarrow
   sūryavallī? Holostemma ada-kodien,
   Schultes. See ADPS: 195, AVS: v. 3, 167,
   NK: v. 1, #1242, AVS: v. 3, 1619, 108
hornwort (jalaśūka) \leftarrow jalanīlikā.
   Ceratophyllum demersum, L. See
   AVS: v. 2, 56, IGP: 232. Singh and
   Chunekar (GVDB: 166) suggest
   pondweed. Dalhana noted on 1.16.19
   (Su 1938: 79) that some people
   interpret it as a poisonous, hairy,
   air-breathing, underwater creature, 29
Indian barberry (a\tilde{n}jana) \rightarrow ras\bar{a}\tilde{n}jana,
   dāruharidrā. Berberis aristata, DC.
   Dymock: v. 1, 65, NK: v. 1, #335,
   GJM1: 562, IGP: 141, 31, 34, 105
Indian barberry (dāruharidrā) Berberis
   aristata, DC. See Dymock: v. 1, 65,
   NK: v. 1, #685, GJM1: 562, IGP 141,
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Indian barberry ($k\bar{a}l\bar{\imath}yaka$) $\rightarrow d\bar{a}ruharidr\bar{a}$, $a\tilde{n}jana$. Berberis aristata, DC. See

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Dymock: v. 1, 65, NK: v. 1, #685,
   GJM1: 562, IGP: 141, 32
Indian ipecac (payasyā) Uncertain.
   Possibly Tylophora indica (Burm.f.)
   Merr. Perhaps a synonym of panacea
   twiner, giant potato, purple roscoea,
   and plants like asthma plant and Gulf
   sandmat (GVDB: 237-238). Also
   "curds" when not a plant, 29, 108
Indian kudzu (vid\bar{a}r\bar{i}) \rightarrow payasy\bar{a}. Pueraria
   tuberosa (Willd.) DC. See ADPS: 510,
   AVS: v. 1, 792 f, AVS: v. 4, 391; not
   Dymock: v. 1, 424 f. See GJM2: 444, 451,
   AVS: v. 1, 187, but AVS: v. 3, 1719 =
   Ipmoea mauritiana, Jacq, 29
Indian madder (mañjisthā) Rubia
   cordifolia, L. See IGP, Chopra: 215,
   GVDB: 289, 26, 49
Indian mottled eel (varmimatsya) Almost
   certainly the mottled eel. MW: 962c
   noted that the varmi fish "is commonly
   called vāmi." The "vam fish," or
   "vāṅmatsya" in Bengal, is a marine and
   freshwater eel, Anguilla bengalensis. It is
   the most common eel in Indian inland
   waters and a prized food fish (Froese
   and Pauly 2022). However, some NIA
   languages identify the "vam" fish with
   the Indian Pike Conger, Congresox
   talabonides (Bleeker) (Talwar and
   Kacker 1984: 235, 236), 23
Indian sarsaparilla (s\bar{a}riv\bar{a}) \rightarrow anant\bar{a}.
   Hemidesmus indicus, (L.) R. Br.
   ADPS: 434, AVS: v. 3, 141-5, NK: v. 1,
   #1210; and black creeper, pālindī.
   Ichnocarpus frutescens, (L.) R.Br. or
   Cryptolepis buchanani, Roemer &
   Schultes AVS: v. 3, 141, 3.145, 3.203,
   NK: v. 1, #1283, 1210, ADPS: 434, 47,
   49, 105
jambul (jambū) Syzygium cumini, (L.)
   Skeels. See ADPS: 188, NK: v. 1, #967,
   Potter<sub>rev</sub>: 168, Wujastyk 2003a, 31
jasmine (mālatī) Jasminium grandiflorum,
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L. See NK: v. 1, #1364, 32

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jequirity (gu\tilde{n}j\bar{a}) Abrus precatorius, L. See AVS: v. 1, 10, NK: v. 1, #6, Potter<sub>rev</sub>: 168, 37
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lac (*lākṣā*) Kerria lacca (Kerr.). See GJM1: 445, NK: v. 2, #32. Watt (1908: 1053–1066) is characteristically informative, and is definite about the antiquity of lac in India, 53

liquorice (?) (*klītaka*) Glycyrrhiza glabra, L.? GVDB: 123–124 discuss the many difficulties in identifying this plant, 37

liquorice (*madhuka*) see *yaṣṭīmadhuka*, 29, 35, 46, 49

liquorice (yaṣṭīmadhuka) Glycyrrhiza glabra, L. AVS: v. 3, 84, NK: v. 1, #1136, GVDB: 329 f., 31

lodh tree (*lodhra*) Symplocos racemosa, Roxb. See GJM1: 597, ADPS: 279 f, NK: v. 1, #2420. Singh and Chunekar (GVDB: 351–352) notes that there are two varieties, S. racemosa, qualified as śāvara, and S. crataegoides Buch.-Ham. for *paṭṭikā lodhra*, 49

long pepper (*māgadha*) Piper longum, L. See NK: v. 1, #1928; but cf.

AVS: v. 3, 245, 34

long pepper (*pippalī*) Piper longum, L. See ADPS: 374, NK: v. 1, #1928, 35, 49

luffa (koṣītakī) = kośātakī. Luffa cylindrica, (L.) M. J. Roem. or L. acutangula, (L.) Roxb. ADPS: 252–253, NK: v. 1, #1514 etc. GVDB: 121, 30, 47, 107

luffa gourd ($kośavat\bar{t}$) = $koṣ\bar{t}tak\bar{t}$, luffa, 47 mango ($\bar{a}mra$) Mangifera indica Linn. GVDB: 37, 31

marking-nut tree (*bhallātaka*) Semecarpus anacarium, L. See NK: v. 1, #2269, AVS: v. 5, 98, 34

medhshingi (vijayā2) Dolichandrone falcata (DC.) The Sauśrutanighanṭu gives a number of synonyms for vijayā (Suvedī and Tīvārī 2000: 5.77, 10.143). But one of them, viṣāṇī (also meṣaśṛṅgī), is sometimes equated with Dolichandrone falcata (DC.) Seemann

(ADPS: 518; GVDB: 373 f, a plant used as an abortifacient and fish poison (NK: #862), 38

migraine tree (agnimantha) Premna corymbosa, Rottl. See AVS 1927, ADPS: 21, NK: v. 1, #2025, AVS: v. 4, 348; GJM1: 523: = P. integrifolia/serratifolia, L, 47

milk-white (*kṣīraśuklā*) An unidentified plant. GVDB: 126: see purple roscoea and giant potato, 29, 108

monitor lizard (*godhā*) Varanus bengalensis, Schneider. See Reptiles: 58, 29, 35

mung beans (*māṣaka*) Phaseolus mungo Linn. GVDB: 308, 32

myrobalan (*abhayā*) Terminalia chebula, Retz. See ADPS: 172, NK: v. 1, #2451, Potter_{rev}: 214, 47, 53

natron (*suvarcikā*) Sodium carbonate. NK: v. 2, #45. Dalhaṇa identifies *suvarcikā* with svarjikṣāra 4.8.50 (Su 1938: 441), 49

neem tree (*nimba*) Azadirachta indica A. Juss. GVDB: 226, 26

nutgrass (*kuruvinda*) Unknown. Þalhaṇa on 5.3.15 (Su 1938: 568) glossed the term as nutgrass, but noted other opinions that it was a whetstone or a very special metallic gem. Singh and Chunekar (GVDB: 108) added that it could be a variety of rice, ṣaṣṭika dhānya, 53

nutgrass (*mustā*) Cyperus rotundus, L. See ADPS: 316, AVS: v. 2, 296, NK: v. 1, #782, 107

panacea twiner (arkapuṣpī) → arkaparṇī,
Tylophora indica (Burm. f.) Merr.
GVDB: 23–24. Maybe identical to
Indian ipecac, giant potato and similar
sweet, milky plants. See GVDB: 24, 127,
238, 441, 443 for discussion. For
discussion in the context of
Holostemma creeper, see ADPS: 195
and AVS: v. 3, 171. The etymology of

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the name suggests Helianthus annus
                                                 notes that many physicians use Roscoea
  Linn., but this plant is native to the
                                                 procera Wall. in this context. But the
   Americas, 47, 106
                                                 identification is uncertain. Possibly
                                                 connected to milk-white or giant
peas (harenu) harenu = satīna. Pisum
  sativum, L. Singh and Chunekar
                                                 potato., 106, 107
   (GVDB: 419–420, 467–468) notes that
                                              rajmahal hemp (morata) \rightarrow m\bar{u}rv\bar{\iota},
  two plants are usually meant under this
                                                 Marsdenia tenacissima (Roxb.) Wight
  name, but there is no agreement on the
                                                 et Arn. Good discussion at
  identity of the second, 47, 49, 53
                                                 GVDB: 314–316, 324, 47
peepul tree (aśvattha) Ficus religiosa, L.
                                              red chalk (gairika) gairika, 49
  See ADPS: 63, 56
                                              red gourd (bimbī) Coccinia indica, W. &
periploca of the woods (meṣaśṛṅga)
                                                 A. See PVS 1994.4.715; NK: v. 1, #534,
  Gymnema sylvestre (Retz.) R. Br. See
   AVS: v. 3, 107, NK: v. 1, #1173, 34
                                              rosha grass (dhyāmaka) Cymbopogon
                                                 martinii (Roxb.) Wats. See
plants like asthma plant and Gulf
  sandmat (kṣīriṇī) various milky plants,
                                                 AVS: v. 2, 285, NK: v. 1, #177, 49
                                              sacred lotus (padma) Nelumbo nucifera,
  perhaps including Euphorbia hirta
  Linn. (asthma plant) and E.
                                                 Gaertn. See NK: v. 1, #1698, 32
  microphylla Heyne (Gulf sandmat)
                                              sage-leaved alangium (ankolla) Alangium
   (GVDB: 127), 106
                                                 salvifolium (Linn. f.) Wang.
                                                 GVDB: 5-6, 31
pointed gourd (patola) Trichosanthes
   dioica, Roxb. GVDB: 232-233, 47
                                              sandalwood (candana) Santalum album,
poison berry (bṛhatī) Solanum violaceum,
                                                 L. See ADPS: 111, NK: v. 1, #2217, 49
  Ortega. See ADPS: 100, NK: v. 1, #2329,
                                              sappanwood (pattānga) Also pattanga.
   AVS: v. 5, 151, 47, 49
                                                 Caesalpinia sappan, L. AVS: v. 1, 323,
pondweed (paripelavā) Normally a neuter
                                                 K&B: v. 2, 847 f, GVDB: 234, 31
  noun. Singh and Chunekar
                                              scarlet mallow (bandhujīva) Pentapetes
   (GVDB: 238, 264–265, 409) argued that
                                                 phoenicea, L. NK: #1836, GVDB: 268, 33
  plava and śaivāla are the same thing, and
                                              scented pavonia (bālaka) Pavonia odorata,
  may be either Zannichellia palustris, L.,
                                                 Willd. See ADPS: 498, NK: v. 1, #1822,
  or Potamogeton pectinatus, L, 49
pondweed (śaivāla) Zannichellia palustris
                                              selu plum (śelu) Cordia myxa, L. non
  L. Sometimes identified with ??
                                                 Forssk. See GJM1: 529 (2), IGP: 291b, cf.
   (dūrvā). GVDB: 409, 106
                                                 AVS: v. 3, 1677 f; cf. AVS: v. 2, 180 (C.
prickly chaff-flower (apāmārga)
                                                 dichotoma, Forst.f.), NK: v. 1, #672 (C.
  Achyranthes aspera, L. See GJM1: 524 f,
                                                 latifolia, Roxb.), 47
  AVS: v. 1, 39, ADPS: 44 f, AVS: v. 3,
                                              sesame oil (taila) Sesamum indicum L.
  2066 f, Dymock: v. 3, 135, 26, 29
                                                 GVDB: 183, 30
purging nut (mūsikā) Jatropha curcas, L.
                                              siris (śirīsa) Albizia lebbeck, Benth. See
  See AVS: v. 3, 261, NK: v. 1, #1374, 34
                                                 AVS: v. 1, 81, NK: v. 1, #91, 47
purple calotropis (arka) Calotropis
                                              siris seeds (śirīṣamāṣaka) Albizia lebbeck,
   gigantea, (L.) R. Br. See ADPS: 52,
                                                 Benth. See AVS: v. 1, 81, NK: v. 1, #91, 31
   AVS: v. 1, 341, NK: v. 1, #427,
                                              small-flowered crape myrtle (sidhraka)
  Potter<sub>rev</sub>: 57, Chopra IDG: 305–308, 29
                                                 Lagerstroemia parviflora Roxb. See
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                                                 GVDB: 432, 52
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spikenard (māmsī) Nardostachys
                                                   GVDB: 465, 47, 53
   grandiflora, DC. See NK: v. 1, #1691, 49
                                                turmeric (rajanī) Curcuma longa, L.
spikenard (nalada) \rightarrow māṃsī.
                                                   ADPS: 169, AVS: v. 2, 259, NK: v. 1,
   Nardostachys grandiflora, DC. See
                                                   #750,49
   NK: v. 1, #1691, 29
                                                velvet-leaf (pāṭhā) Cissampelos pariera, L.
                                                   See ADPS: 366, NK: v. 1, #592,
sugar (sitā) Dalhaṇa makes this equation
   at 1.37.25 (Su 1938: 162), 49
                                                   GJM1: 573, AVS: v. 1, 95; cf.
sunflower (s\bar{u}ryavall\bar{\iota}) \rightarrow \bar{a}dityavall\bar{\iota},
                                                   AVS: v. 2, 277, 47
   sūryamukhī, Helianthus annūs Linn.
                                                velvet-mite (indragopa) Kerria lacca
                                                   (Kerr.). Lienhard 1978, 30
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                                                verbena (phañjī) Clerodendrum serratum,
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                                                   L. See AVS: v. 2, 121, ADPS: 87, 33
   plants are enumerated at
   Suśrutasaṃhitā 1.42.11. See also
                                                watered buttermilk (udaśvit) MW: 183, 30
   GVDB: 127, 29
                                                water-lily (utpala) Nymphaea stellata,
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   Nerium oleander, L. See ADPS: 223,
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                                                white calotropis (alarka) Calotropis
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   ADPS: 267-270, 105
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