A Translation of the Nepalese Text of the Suśrutasaṃhitā

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Sūtrasthāna 2: The Initiation of a Student

Literature

HIML: IA, 204; Preisendanz 2007; Wujastyk 2012: 82–83, et passim.

Translation

1









Kalpasthāna 4: Snakes and Invenomation

Introduction

The fourth chapter of the Kalpasthāna of the *Suśrutasaṃhitā* addresses the topic of snake bites and snake venom. Unusually for the Nepalese version of the *Suśrutasaṃhitā*, the discussion is framed as a question from Suśruta to the wise Dhanvantari. Suśruta's questions are about the number of snakes, how they are classified, the symptoms of their bites and the pulses or stages of toxic shock experienced by a victim of snakebite and related topics. The taxonomy of snakes is presented in tabular form in Figures 1 and 2.⁴⁰⁷

Literature

A brief survey of this chapter's contents and a detailed assessment of the existing research on it to 2002 was provided by Meulenbeld.⁴⁰⁸ There also exists an substantial herpetological literature from colonial India as well as more recent studies of snakes in the context of cultural and religious life.

The ophiological literature of the colonial period began in the late nineteenth century with the work of Fayrer, whose publication included striking colour paintings of snakes.⁴⁰⁹ Fayrer provided a biological taxonomy

⁴⁰⁷ On the idea of notational variants in scientific translation, see Elshakry 2008; Sarukkai 2016; Wujastyk 2021*a*: 81–83.

⁴⁰⁸ HIML: IA, 292–294. In addition to the translations mentioned by Meulenbeld (HIML: IB, 314–315), a translation of this chapter was included in P. V. Sharma 1999–2001: 3, 35–45.

⁴⁰⁹ Fayrer 1874, first published in 1872.

of snakes as well as chapters on mortality statistics during the nineteenth century, treatment and effects of poison, and experimental data. Ewart (1878) included descriptions of appearance and behaviour of poisonous snakes and sometimes their local names and reproducing Fayrer's illustrations. Wall (1913: 75–124) provided a useful analysis of the medical effects of snake envenomation in India arranged by the varied symptomology of different snakes. He also discussed the difference between the symptoms of toxicity and fright (69–75) and also the difficulties arising out of uncertainty about the effects of snake-bite (124–126). The *Suśrutas-aṃhitā* too recognized the emotional and somatic effects of fright (see note 422 below). Wall (1921) provided a wealth of detail of the snakes of Sri Lanka, including line drawings.

Doniger (2015) provided a good survey of snakes as protagonists in religious literature from the *Atharvaveda* through the epics, *Purāṇas* and Buddhist literature. Semeka-Pankratov (1979) traced semiotics of the term *nāga* through Vedic, Pali and Sanskrit literature. Slouber (2016: 31–33 *et passim*) discussed the *Suśrutasaṃhitā*'s *Kalpasthāna* as a precursor and influence on later Tantric traditions of snake-bite interpretation and therapy. In particular, the Tantric *Kriyākālaguṇottara* text that Slouber presented divided snakes into two basic categories, divine and mundane, as the *Suśrutasaṃhitā* does.⁴¹¹ But unlike the *Suśrutasaṃhitā*, in the *Kriyākālaguṇottara* the chief taxonomic principle for both groups is the four *varṇas*.

A discussion of this chapter specifically in the light of the Nepalese manuscripts was published by Harimoto.⁴¹² After a close comparative reading of lists of poisonous snakes, Harimoto concluded that, "the Nepalese version is internally consistent while the [vulgate] editions are not." Harimoto showed how the vulgate editions had been adjusted textually to smooth over inconsistencies, and gave insights into these editorial processes.⁴¹³

⁴¹⁰ Calling his work a supplement to Fayrer (1874), but also being cited by Fayrer, Ewart 1878 evidently also collected local indigenous knowledge from his "snakeman" (p. 22).

⁴¹¹ Slouber 2016: 144-145.

⁴¹² Harimoto 2011: 101-104.

⁴¹³ The two editions that Harimoto noted, Su 1938 and Su 1889, present identical texts.

Translation

1 Now we shall explain the procedure (*kalpa*) about what should be known concerning the venom in those who have been bitten by snakes.⁴¹⁴

- 3 Suśruta, grasping his feet, questions the wise Dhanvantari, the expert in all the sciences.
- 4 "My Lord, please speak about the number of snakes, and their divisions, the symptoms of someone who has been bitten, and the knowledge about the successive shocks (*vega*) of poisoning".⁴¹⁵
- On hearing his query, that distinguished physician spoke. "The venerable snakes such as Vāsukī and Takṣaka are uncountable.
- 6–9ab "They are snake-lords who support the earth, as bright as the ritual fire, ceaselessly roaring, raining and scorching. They hold up the earth, with its oceans, mountains and continents. If they are angered, they can destroy the whole world with a breath and a look. Honour to them. They have no role here in medicine.
 - "The ones that I shall enumerate in due order are those mundane ones with poison in their fangs who bite humans. 416
- 9cd–10 "There are eighty kinds of snakes and they are divided in five ways: Darvīkaras, Maṇḍalins, Rājīmats, and Nirviṣas. And Vaikarañjas that are traditionally of three kinds.⁴¹⁷
 - "Of those, there are twenty and six hooded snakes, and the same number of Maṇḍalins are known. There are thirteen Rājīmats.⁴¹⁸

414 The Sarvāṅgasundarī, commenting on 1.16.17 (Ah 1939: 246), glossed कल्प as प्रयोग.

Or "There are 20 phanins and 6 mandalins. The same number are known. There are 13 Rājīmats." Or even, "there are 20 Phanins and six of them are Mandalins." Are phanins really the same as darvīkaras:

⁴¹⁵ The expression "successive shocks" translates वेग, which is other contexts may mean "(natural) urge." Here, it is rather the discrete stages or phases of physiological reaction to envenomation. Cf. the symptoms of cobra poisoning described by Wall (1913: 80).

⁴¹⁶ The next few verses are discussed in detail by Harimoto (2011: 101–104), who shows that in the taxonomy of snakes, the Nepalese version of the *Suśrutasaṃhitā* has greater internal coherence than the vulgate recension.

⁴¹⁷ Harimoto (2011) translated these names as "hooded," "spotted," "striped," "harmless," and "hybrid." Figure 1 shows the taxonomy described in the vulgate text; Figure 2 shows the different and more logical division of the Nepalese version of the *Suśrutasaṃhitā*.

⁴¹⁸ The phrasing of this śloka is awkward.

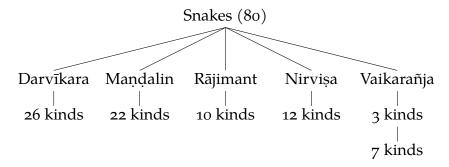


Figure 1: The taxonomy of snakes in the vulgate, 5.4.9–13ab (Su 1938: 571).

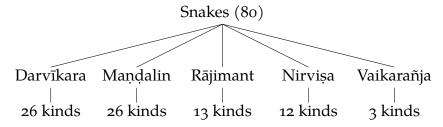


Figure 2: The taxonomy of snakes in the Nepalese version.

- "There are said to be twelve Niriviṣas and, according to tradition, three Vaikarañjas.
- "If they are trodden on, ill-natured or provoked or even just looking for food, those very angry snakes will bite. And that is said to happen in three ways: serpented (*sarpita*), torn (*darita*) and thirdly without venom (*nirviṣa*). Some experts on this want to add "hurt by the snake's body".⁴¹⁹
 - "The physician can recognize the following as "ophidian (*sarpita*)": Where a rearing snake makes one, two or more puncture-marks of its teeth, when they are deep and without much blood,⁴²⁰ accompanied

⁴¹⁹ This might refer to constriction. The phrase reads like a commentarial addition rather than the main text of the *Suśrutasaṃhitā*.

⁴²⁰ The word उद्भूत "aroused" was glossed by Dalhaṇa at 5.4.15 (Su 1938: 571) as उन्मोट्य, a word not found as such in standard dictionaries (MW; KEWA; AyMahā; Apte). Semantic considerations suggest that the word is not related to √muṭ "break" or mūta/mūṭa "woven basket." Perhaps it is related to the Tamil Gωπμ (mōṭi,) whose meanings include "arrogance, grandeur, display" (DED₂: #5133) or to faintly-documented forms like moṭyate "is twisted" (CDIAL: #10186). Dalhaṇa's उन्मोट्य may thus mean "twisting up" or "making an arrogant display."

by a little ring of spots (cuñcumālaka), 421 lead to degeneration, and are close together and swollen.

17 Where there are streaks with blood, whether it be blue or white, the grammar physican should recognize that to be "torn (darita)," having a small amount of venom.



- 18 The physician can recognize the locations of the bites of a person in a normal state as being free from poison, when the location is not swollen, and there is little corrupted blood.
- The wind of a timid person who has been touched by a snake can get irritated by fear. It causes swelling.⁴²² That is "hurt by a snake's body."
- 20 Locations bitten by sick or frightened snakes are known to have little poison. Similarly, a site bitten by very young or old snakes has little poison.
- 21 Poison does not progress in a place frequented by eagles, ⁴²³ gods, holy sages, spirits, and saints, or in places full of herbs that destroy poison.⁴²⁴

Note that पद "puncture-mark" (more literally, "footprint") is being used in the same sense as in 1.13.19 (Su 1938: 57) when describing the marks on the body where a knife scarifies the skin before leeching. See footnote 49.

- 421 The usual dictionary lexeme is चञ्च , not चुञ्च as in the Nepalese witnesses. We translate "spots" following Dalhana and Gayadasa on 5.4.15 (Su 1938: 571), where they described a group of spots or swellings at the site of the bite. On the history of the word मालक, see Kieffer-Pülz 1996.
- 422 Wall (1913: 69) remarked on the difficulty of separating toxicity symptoms from the psychosomatic effects of terror:

The gravity of symptoms due to fright does not appear to me to be sufficiently recognised, though there is no doubt in my mind that fatal cases from this cause are abundant, especially among the timid natives of this country.

Wall went on to give several case studies in which patients experienced syncope or even died as a result of bites from toxicologically harmless creatures.

423 Palhaṇa on 5.4.21 (Su 1938: 571) identified the सूपर्ण as a गरुड. On the bird called सु-पर्ण, Dave (1985: 72 ff, 514) too noted that it may be a synonym for Garuda, and in some contexts may refer to the Golden Eagle, Golden Oriole, Lammergeyer, etc. Dave (1985: 199 ff, 492) noted again that the Garuda is a mythical bird but may refer to the Himalayan Golden Eagle and other species of eagle. He pointed out that historically, The original physical basis for गरुड as the नागाशी (snake-eater) was most probably the Sea-Eagle who picks up sea-snakes from the sea or sand-beach and devours them on a nearby tree... (Dave 1985: 201).

Dave continued with interesting reference to Śrīharṣa's Nāgānanda. 424 For "spirits" the Nepalese version has भूत while the vulgate reads यक्ष.

[Types of snake]

- 22 Darvīkara snakes are know to have hoods, to move rapidly, and to have rings, ploughs, umbrellas, crosses, and hooks on them.
- Maṇḍalin snakes are known for being large and slow-moving. They are decorated with many kinds of circles. They are like a flaming fire because of their poisons.
- Rājimant snakes are smooth and traditionally said to be, as it were, mottled with multicoloured streaks across and above.

[Classes of snake]

- Snakes that are shine like pearls and silver, and that are amber and that shine like gold, and smell sweet are traditionally thought of as being of the Brāhmana caste.
- Warrior snakes, however, are those that look glossy and get very angry. The have the mark of the sun, the moon, the earth, an umbrella and bitumen.
- 27 Merchant snakes may traditionally be black, shine like diamond or have a red colour or be grey like pigeons.
- Any snakes that are coloured like a buffalo and a tiger, with rough skin and different colours are known as servants.⁴²⁵
- All snakes that are variegated (Rājīmats) move about during the first watch of the night. The rest, on the other hand, the Maṇḍalins and the Darvīkaras, are diurnal.⁴²⁶
- 29 Wind is irritated by all hooded snakes; bile by Maṇḍalins and phlegm by those with many stripes.
- Because of the two classes having greater, lesser or equal class, there is the characteristic of irritating two humours.

 And he will explain the opposing view that is to be known as a result
 - of the non-union of a male and female.⁴²⁷

⁴²⁵ Presumably "different" from the earlier-mentioned castes.

The sequence of the following three verses is slightly different from the vulgate (5.4.29–31 (Su 1938: 572)).

⁴²⁶ The readings of the vulgate, that Rājīmats are active in the early night, the Maṇḍalins in the later night, and Darvīkaras in the day, seem clearer.

⁴²⁷ The sense of the last phrase here is quite different from the vulgate, which says only that "details" will be explained below.

[Enumeration of snakes]

34.1	In that context, her	e are the Darvīkaras	3.
34.1	in that context, ner	e are the Darvikara	Ľ

The Black snake (kṛṣṇasarpa); (mahāpadma); The Big Black (mahākṛṣṇa); The Grass Flower (apuspa); 16. 2. The Black Belly (krsnodara); The Curd Mouth 17. 3. The All Black (sarvakṛṣṇa);428 (dadhimukha); 4. The White Pigeon 18. The Lotus Mouth 5. (śvetakapota);429 (pundarīkamukha); The Rain Cloud (valāhako); The Brown Hut Mouth 19. The Great Snake (babhrūkutīmukha); (mahāsarpa); The Variegated (*vicitra*); 20. The Conch Keeper The Flower Sprinkle Beauty (puspābhikīrnnābha); (śamkhapāla); The Red Eye (lohitākṣa); The Mountain Snake 9. 22. The Gavedhuka (gavedhuka); (girisarpa); 10. The Snake Around The Straight Snake 11. 23. (parisarpa); (rjusarpa); The Break Hood The White Rip (*śvetadara*); 12. 24.

25.

26.

34.2 Here are the Mandalins

13.

14.

15.

1. The Mirror Ring (ādarśamaṇḍala);

(khandaphana);

The Kūkuta (*kūkuta*);

The Lotus (padma);

The Great Lotus

- 2. The White Ring (*śvetamandala*);
- 3. The Red Ring (raktamandala);
- 4. The Speckled (*pṛṣata*);5. The Gift of God (*devadinna*);
- 6. The Pilindaka (*pilindaka*);
- 7. The Big Cow Snout
- (vṛddhagonasa);
- 8. The Jackfruit (panasaka);

- 9. The Big Jackfruit (mahāpanasaka);
- 10. The Bamboo Leaf (*venupatraka*);
- 11. The Kid (*śiśuka*);
- 12. The Intoxicator (madanaka);

The Big Head (mahāśīrṣa);

The Hungry Sting (alagarda);

- 13. The Morning Glory (pālindaka);
- 14. The Stretch (tantuka);
- 15. The Pale as a Flower $(puspap\bar{a}ndu);$

⁴²⁸ Not in vulgate.

⁴²⁹ The vulgate adds The Big Pigeon (mahākapota).

- The Six Part (sadanga); 16. The Hand Decoration 22. The Flame (agnika); (hastābharaṇaka); 17. The Brown (babhru); The Tatra (tatra);⁴³⁰ 18. 23. The Ochre (kaṣāya); The Mark (citraka); 19. 24. The Khalusa (*khalusa*); The Deer Foot (enīpada).⁴³¹ 20. 25. The Pigeon (pārāvata); 21. Here are the Rājīmats.⁴³² 34.3 The Lotus (pundarīka); The Grass Drier (*tṛṇaśoṣaka*); The Stripe Speckle (*rājicitra*); 8. The White Jaw (svetahanu); The Finger Stripe (angulirāji); The Grass Flower 3. The Two Finger Stripe (darbhapuspa);⁴³³ (dvyangulirāji); The Red Eye (lohitāksa);434 10. The Drop Stripe (bindurāji); The Ringed (cakraka); The Mud (*kardama*); The Worm Eater (kikkisāda); 12. Here are the Nirvisas. The Rain Cloud (valāhako);⁴³⁵ The Two-day (dvyāhika); Thei Snake Flag (ahipatāka); The Milk Flower The White Leaf (*śukapatra*); (kṣīrikāpuṣpa); 3. The Flower All (puspasakalī); The Goat Swallower 10. (ajagara); The Chariot of Light 11. The Stimulator (*dīpyaka*); (jyotīratha); The Ilikinī (ilikinī); The Little Tree (vrksaka); 12. The Year-Snake (varṣāhīka);
- 34.5 The Vaikarañjas originate out of contrary unions amongst the three colours. 436 Thus:
 - ı. The Mākuli (*mākuli*);



⁴³⁰ This seems implausible, but otherwise the list of Mandalins would be short.

⁴³¹ The list is short by one item. Perhaps the one of the snakes named in the vulgate, *citramaṇḍala, gonasa* or *piṅgala*, should be considered here.

⁴³² The following list is one item short. The vulgate text, however, has several names that do not appear in the Nepalese Rājīmat list, for example Sarṣapaka and Godhūmaka.

⁴³³ Also in the Darvīkara list.

⁴³⁴ Also in the Darvīkara list.

⁴³⁵ Also in the Darvīkara list.

⁴³⁶ The word <code>varṇa</code> in this chapter normally means "colour" not "class." ("Class is expressed by "jāti.") While <code>kṛṣṇasarpa</code> is clearly a colour-type, it is less obvious that <code>gonasī</code> is a special colour, and <code>rājimat</code> is a group of snakes.

- The Poṭa Throat (poṭagala);
- 3. The Oil Stripe (*snigdharāji*);

Amongst those, the Mākuli (*mākuli*); is born when a male Black Snake mates with a female Cow Snout (*gonasa*), or the reverse. The Poṭa Throat (*poṭagala*) is born when a male Rājila mates with a female Cow Snout (*gonasa*) or the reverse. The Oily Stripe (*snigdharāji*) is born when a male Black Snake mates with a female Rājimat, or the reverse. Their poison is like that of their father, because it is the superior one out of the two; but others say it is like the mother. Thus eighty of these snakes have been described.

- Amongst them, males have large eyes, tongues and heads. 437 Females have small eyes, tongues and heads. Neuters have both characteristics, and are slow to exert themselves or be angry. 438
- In that context we shall give instruction in a general way about the sign of having been bitten by any of the snakes.

For what reason?

Because poison acts quickly, like a fire with an oblation, a honed sword, or a thunderbolt.⁴³⁹ And ignored for even a period of time, it can drag the patient away. There is not even an opportunity to follow the literature.⁴⁴⁰

And when the symptom of being bitten is stated, there will be three ways of treating it because there are three kinds of snake. Therefore we shall explain it in three ways. "For this is good for people who are ill, and it removes confusion and in this very case it prevents all symptoms".⁴⁴¹

⁴³⁷ The vulgate includes the snake's mouth in this and the next list.

⁴³⁸ The reading मन्दचेष्टाक्रोधा is an awkward compound; possibly the original reading was मन्दचेष्टाः + अक्रोधा and sandhi was applied twice.

⁴³⁹ Perhaps the image suggested by "a fire with an oblation" is that of the Pravargya, in which a large flame rises suddenly from the ritual fire.

⁴⁴⁰ The idea seems to be that there is no time to consult the verbose āyurvedic teachings. The "extensive meaning of the collection of statements (वाक्समूहार्थविस्तार)" is singled out as one of Āyurveda's virtues in 5.8.142 (Su 1938: 594). Alternatively, perhaps the patient is unable to understand what the doctor is saying to him.

⁴⁴¹ In the next passage, the symptoms of snake poisoning are indeed explained under three headings.

[Symptoms of snakebite]

In this context, the poison of a Darvīkara causes the skin, nails, eyes, mouth, urine, feces, and the bitemark to be black; there is driness, the joints hurt and the head feels heavy; the waist, back and neck feel weak; there is yawning, the voice becomes faint, there is gurgling, paralysis, dry throat, cough, wheezing, and hiccups; the wind goes upwards, the patient convulses with sharp pain, black saliva dribbles out, foam appears, the ducts (*srotas*) are blocked and every kind of pain that is due to wind.⁴⁴²

The poison of a Maṇḍalin causes the skin, nails, eyes, teeth, mouth, urine, feces, bitemark to be yellow; there is a desire for cold, a temperature, giving off fumes, 443 a burning feeling, thirst, intoxication, fainting, fever, haemorrhaging (śonitāgamana), and the degeneration of the flesh and fat above and below. There is swelling, suppuration of the bite, metamorphopsia (viparītadarśana), anger caused by the suffering, and every kind of pain that is due to bile.444

The poison of a Rājīmat causes the skin, nails, eyes, teeth, mouth, urine, feces, and bitemark to be pale; there is a cold fever, the hair stands on end, there is stiffness and swelling of the limbs including the site of the bite. There is a discharge of viscous phlegm, vomiting, itchy eyes, and a rattling sound. The breath is obstructed and there is every kind of pain due to phlegm.

In that context, "someone bitten by a male gazes upwards, by a female horizontally, and by a neuter, downwards." One bitten by a pregnant snake has a pale face and becomes swollen (ādhmāta). One bitten by a recently-delivered snake is afflicted with abdominal pain and urinates

⁴⁴² Cf. the similar symptoms of snake venom poisoning by the so-called Brahmin warriors of Harmatelia described by the classical author Diodorus Siculus (fl. ca. 30-60 BCE) (Eggermont 1975: 108).

⁴⁴³ The term "giving of fumes (परिधूपायन)" is not in MW: 596 as such, although परिधूपन, परिधूपन and परिधूपायन are cited and referred to the Suśrutasaṃhitā. "Giving off fumes (परिधूपन)" is listed at Suśrutasaṃhitā 2.6.13 (Su 1938: 291) amongst the symptoms of urinary disease caused by phlegm. The editors note a variant reading परिधूपायन but do not tell us in which manuscript (Su 1938: 291, n. 3). Dalhaṇa on 2.6.13 (Su 1938: 292) glossed परिधूपन as "hot all over (समन्ततस्तापः)" and in our current passage as "hot over the whole body (सर्वाङ्गसन्तापः)" (Su 1938: 573). See also AyMahā: 1, 429: धूमायन "अङ्गानां धूमोद्गमनमिव" citing the Suśrutasaṃhitā.

⁴⁴⁴ Ghosh et al. (2023) describes visual disturbances due to snake envenomation.

with blood. One bitten by a hungry snake craves food. Those bitten by an old snake have delayed and slow reactions. And one bitten by a young snake is fast and keen. One bitten by a non-venomous snake has the characteristic mark of non-poisoning.⁴⁴⁵ Some that are bitten by a blind snake become blind. A constrictor (*ajagara*) is deadly because it swallows, not because of poison.

[Toxic Pulses]

39 In that context, all snake toxins have seven toxic impulses (*viṣavega*).

[Darvīkaras] Thus, at the first pulse of the Darvīkaras the poison corrupts the blood. That corrupted blood turns black. Because of that, blackness and a feeling of ants crawling about on the body develop.⁴⁴⁶ In the second pulse, it corrupts the flesh. That causes extreme blackness and lumps.

In the third, it corrupts the fat. That causes a discharge at the bite, heaviness of the head and an eclipse of the vision.⁴⁴⁷

In the fourth, it penetrates the trunk of the body (*koṣṭha*). From there, it irritates the humors, particularly phlegm. That causes exhaustion and oozing phlegm, and dislocation of the joints.

In the fifth pulse, it penetrates the bones. That causes breaking of the joints, hiccups and burning.

In the sixth pulse, it penetrates the marrow. That causes humours in the seat of fire in the gut $(grahan\bar{\imath})$, heaviness of the limbs, diarrhoea, pain in the heart and fainting.⁴⁴⁸

In the seventh, it penetrates the semen and greatly irritates the vyāna breath $(vy\bar{a}na)$, and causes the phlegm (kapha) to run imperceptibly out of the tubes (srotas). That causes the appearence of mucous (śleṣman),

⁴⁴⁵ The grammar of अविषलिङ्गम् is not quite right; it should be a masculine or plural bahuvrīhi.

⁴⁴⁶ Strictly, we would expect a dual verb here, instead of the plural of the witnesses.

⁴⁴⁷ Dalhana on 5.4.39 (Su 1938: 574) glossed the last expression as "blockage of the vision (दृष्ट्यवरोध)."

⁴⁴⁸ The "seat of fire in the gut (ग्रहणी)" is an ayurvedic organ in the digestive tract that does not correspond to any specific organ known to contemporary anatomy. For discussion, see AyMahā: v. 1, 304; Meulenbeld 1974b: 619; Das 2003: 544–545.

breaking of the hips, back and shoulders, impediment to all movements and shortness of breath.

[Mandalins] Thus, at the first pulse of the Mandalins, the poison corrupts the blood. Corrupted by that, it turns yellow. That causes a yellow appearance and a feeling of heat all over (paridāha).

In the second pulse, it corrupts the flesh. And that causes the limbs to be very yellow and an extreme feeling of heat all over (*paridāha*), and swelling at the bite.

In the third, it corrupts the fat. That causes a discharge at the black bite and sweating.

In the fourth, it penetrates as before and brings on fever.

In the fifth, it causes heat in all the limbs.

In the sixth and seventh, it is the same as before.

[Rājīmats] Thus, in the first pulse of the Rājīmats, the poison corrupts the blood. Corrupted by that, it turns yellow. It causes a person to have hair standing on end and a pale appearance.

In the second pulse, it corrupts the flesh. That causes him to become pale and to become extremely benumbed $(j\bar{a}dya)$.

In the third, it corrupts the fat. That causes moistness of the bite and runny eyes and nose.

In the fourth, it is the same as before. After penetrating, it brings on manyāstambha (*stiffness of the neck*) and heaviness of the head.

In the fifth, speech is confused and there is a cold fever.

In the sixth and seventh, it is the same as before.

40 There are verses on this.

It is well known that there are seven layers of skin (kalā) in between the bodily tissues (dhātu). Poison enters into these one by one and causes the toxic pulse (vega).

The interval taken by the deathly substance (kālakalpa), propelled ($\sqrt{u}h$) by air, to cut the layers of skin (kalā) is traditionally called the "pulse interval (vegāntara)".⁴⁴⁹

⁴⁴⁹ Dalhaṇa on 5.4.41 (Su 1938: 574) glossed कालकल्प as मृत्युसदृशं विषं "the poison resembles death."

In the first pulse, an animal has a swollen body, is distressed and broods. 450

In the second, it dribbles somewhat,⁴⁵¹ the hair stands up on its body, and it has pain $(\sqrt{p}\bar{l}d)$ in the heart.

The third stage brings headache and it breaks the ears and necks. 452

44

45

⁴⁵⁰ The verb √प्रध्ये "meditate, be thoughtful, brood" is unexpected here. Dalhaṇa on 5.4.42 (Su 1938: 574) noted a variant reading that omitted the vulgate's variant ध्यायति प्रथमे "at first it broods."

⁴⁵¹ The Nepalese witnesses use ਲਾਲਿ-, not ਲਾਲਾ-, for "saliva."

⁴⁵² The scribe of MS H emended the text to read কত্ত্মীৰ with the vulgate. Intransitive use of pass. भञ्जू.



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HIML

IOLR

KEWA

KL

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 MN_3

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MW

NAK NCC

NGMCP

PW

PWK

RORI Su 1889

Su 1915

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ADPS Sivarajan, V. V., and Balachandran,

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Chopra IDG

Chopra_{sup}

CIPP

Dutt

Dymock

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GVDB	Singh, Thakur Balwant, and Chunekar, K. C. (1972), Glossary of Vegetable Drugs in Brhattrayī (Varanasi: Chowkhamba Sanskrit Series Office), ark:/13960/s2cvp72x58j.
IGP	Griffiths, Mark (1994), <i>The New Horticultural Society Index of Garden Plants</i> (London: Macmillan).
Issar	Issar, T. P. (1994), <i>Blossoms of Bangalore</i> (Bangalore: T. P. Issar).
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K&B

NK

Potter

 $Potter_{rev}$

Reptiles

Trees

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aconite leaf (?) (visapatrikā) Unknown. Cf.
                                                  Cakrapāṇidatta. See the discussion by
   perhaps, vatsanābha (wolfsbane). Cf.
                                                  T. B. Singh and Chunekar
   GVDB: 373: 105
                                                   (GVDB: 362–363), where other
'alas, alas' (hālāhala) unknown. See Cf.
                                                  candidate species such as Osmanthus,
   Sodhalanighantu p.43 (sub bola) =
                                                  Calotropis, and Trianthema are
                                                  discussed. T. B. Singh and Chunekar
   stomaka = vatsanābha:
                                                  (GVDB: 363) note that when vasuka is
Alexandrian laurel (punnāga)
                                                  mentioned with vasira, two varieties of
   Calophyllum inophyllum, L. See
                                                  salt are often meant (see ??). See also
   AVS: 1, 338, NK: 1, #425:
                                                  NK: #1299 who identifies it with
amaranth (tandulīyaka) Amaranthus
                                                  Indigofera enneaphylla, Linn.
   hypochondriacus, L. See King 321,
                                                  (Birdsville Indigo), apparently without
   NK: 1, #144, Potter<sub>rev</sub>: 15. Cf.
                                                  controversy:
   AVS: 1, 121: 98
                                               beautyberry (priyangu) \rightarrow śyāmā.
arjun (arjuna) Terminalia arjuna, Bedd.
                                                  Callicarpa macrophylla, Vahl. See
   See HK : 34
                                                  AVS: 1, 334, NK: 1, #420. Some say also
ash gourd (k\bar{u}smānda) \rightarrow puspaphala.
                                                  Setaria italica Beauv. GVDB: 263-264.
   Beninkasa hispida, (Thunb.) Cogn. See
                                                  See also GVDB: 413: 34, 116, 121
   AVS: 2, 1127; cf. AVS: 1, 261:
atis root (śṛṅgīviṣa) Aconitum
                                               beautyberry (śyāmā) Callicarpa
                                                  macrophylla, Vahl. See AVS: 1, 334,
   heterophyllum, Wall. ex Royle. See
   AVS: 1, 42, NK: 1, #39:
                                                  NK: 1, #420: 74, 96, 98
                                               beggarweed (amśumatī) Desmodium
axlewood (dhava) Anogeissus latifolia
                                                  gangeticum (L.) DC (Dymock: 1, 428,
   (Roxb. ex DC.) Wall. ex Guill & Perr.
   See AVS: 1, 163 f, Chopra: 20: 34, 120
                                                  GJM1: 602, NK: 1, #1192; ADPS: 382,
bamboo leaves (venupatrikā) Bambusa
                                                  414 and AVS: 2, 319, 4.366 are
   bambos, Druce. See NK: 1, #307:98
                                                  confusing): 116
banyan (nyagrodha) Ficus bengalensis, L.
                                               beggarweed (vid\bar{a}rigandh\bar{a}) \rightarrow \dot{s}\bar{a}laparn\bar{\iota}.
   See HK:
                                                  Desmodium gangeticum (L.) DC. See
                                                  Dymock: 1, 428, GJM1: 602, cf. NK: 1,
barley (yava) Hordeum vulgare, L. See
                                                  #1192; ADPS: 382, 414 and AVS: 2, 319,
   HK: 79
                                                  4.366 are confusing: 43, 79
bearded premna (vasuka) Premna barbata
   Wall. (\leftarrow vasuhatta), according to
                                               beggarweed (\dot{salaparn}\bar{i}) \rightarrow sthir\bar{a}.
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Dymock: 1, 428, GJM1: 602, NK: 1, #1192; ADPS: 382, 414 and AVS: 2, 319, 4.366 are confusing: Bengal quince (bilva) Aegle marmelos (L.) Corr. See AVS: 1, 62, Chevallier 159, NK: 1, #62, (MW: 732a): 63, 70, 72, 76 'big poison' (*mahāviṣa*) unknown. See ?: 'big thorn apple' (mahākarambha) Datura metel, L.?. See thorn apple (karambha): bitumen (adrija) \rightarrow śilājit. A tar-like, black, resinous rock exudate. See AyMahā: 1, 21: 130 black cardamom (Xharenu) Amomum subulatum, Roxb.?. See PVS Caraka 2.734, AVS: 1, 128, NK: 1, #154, pace GVDB: 467-468: black creeper (pālindī) Ichnocarpus frutescens, (L.) R.Br. or Cryptolepis buchanani, Roemer & Schultes. See AVS: 3, 141, 145, 203, NK: 1, #1283, 1210, ADPS: 434. Dalhana on SS 5.1.82 identified *pālindī* with *trivṛt* (turpeth) and T. B. Singh and Chunekar (GVDB: 246) supported this as a usual identification: 98, 101, 115, 116 black pepper (marica) Piper nigrum, L. See ADPS: 294, NK: 1, #1929: 79 black pepper $(vall\bar{\imath}ja) \rightarrow \text{marica}$. Piper nigrum, L.?. See NK: 1, #1929; Rā.6.115, Dha.4.85, Dha.2.88: blackboard tree (saptachada) Alstonia scholaris R. Br. GVDB: 420: 97 blackbuck (harina) Antilope cervicapra, L. See BIA: 270 IW: 95, 165, et passim: 101 'blade' (kartarīya) unknown. See ?: blue water-lily (utpala) Nymphaea stellata, Willd. See GJM1: 528, IGP 790; Dutt: 110, NK: 1, #1726: 25, 96, 115, 116 bottle gourd (ālābūka) Lagenaria siceria (Molina) Standl. See IGP 645, NK: 1, #1419: bulrush (kaśeru) "Two species, Scirpus

kysoor Roxb., and S. grossus Linn. f.

are used" GVDB: 85. Also kaśeruka

Desmodium gangeticum (L.) DC. See

and kaseru: 74, 75, 78 calamine lotion $(amrt\bar{a}sanga) \rightarrow$ amrtāsanga. Zinc carbonate. See NK: 2, #56: camphor $(karp\bar{u}ra) \rightarrow \hat{s}\bar{\imath}ta\hat{s}iva$. Cinnamomum camphora, (L.) Sieb. See IGP 253: cannabis (vijayā) Cannabis sativa, L. See AVS: 1, 356, NK: 1, #442: caper (*karīra*) Capparis decidua (Forsk.) Edgew. See AVS: 1, 368, (MW: 255b): cardamom (elā) Elettaria cardamomum, Maton. See AVS: 2, 360, NK: 1, #924, Potter_{rev}: 66: 70, 116, 121 carmarī (carmarī) unknown. See ?: carray cheddie $(g\bar{a}\dot{n}geruk\bar{\imath}) \rightarrow viśvadev\bar{a}$. Canthium parviflorum, Lam. See AVS: 1, 366 f: cassia cinnamon (patra) Cinnamomum tamala, (Buch.-Ham.) Nees. See AVS: 2, 84, NK: 1, #589: 70, 76, 98, 116 castor oil tree (gandharvahasta) $\rightarrow eranda$. GVDB: 135, K&B: 3, 2277: 39, 72 castor-oil (eranda) Ricinus communis, L. See NK: 1, #2145, Chopra: 214: 44 certain minerals (tārāvitāra) Unknown. It is not even certain that these are minerals. The variant reading in the vulgate, tāraḥ sutāraḥ was glossed by Dalhaṇa on 5.3.14 (Su 1938: 568) as follows *tāro* rūpyam, sutārah pāradah, "tāra means silver; sutāra means mercury.": 120 Ceylon iron wood (kṣīrikā) Mimusops hexandra, Roxb. (GVDB: 126-127): chaff (kāndana) The word kāndana is not found in dictionaries; kandana is threshing, separating the chaff from the grain in a mortar. Cf. Hemādri's Caturvargacintāmani (PWK: 2,8) (Śiromani 1873: 1, 138: 21, citing the *Vāyupurāṇa*): 26, 213 chebulic myrobalan (harītakī) Terminalia chebula Retz. GVDB: 466: 77, 97 cherry (elavālu) Prunus cerasus, L.?. See

BVDB 58, NK: 1, #2037, GVDB: 58: 116

- chital deer (pṛṣata) Axis axis, Erxleben. See BIA: 292, IW: 93: 101
- 'choice tree' (varadāru) unknown. See ?:
- chukar partridge (cakora) Alectoris chukar. See Woodcock 1980: 45:
- cinnamon (tvac) Cinnamomum cassia, Blume. See NK: 1, #579:
- citron (*mātulunga*) Citrus medica, Linn. GVDB: 276, 306. Also spelled mātulinga, mātulanga, mātulānga: 63, 76, 81, 82
- cluster fig (udumbara) Ficus racemosa, L. See ADPS: 487:
- cobra's saffron (*nāgapuṣpa*) → nāgakeśara. Mesua ferrea, L. See NK: 1, #1595, GVDB: 220: 116
- common crane (krauñca) Grus grus. See Woodcock 1980: 47:
- common mallow (suvarcalā) perhaps Malva sylvestris, L. A difficult plant to identify, see T. B. Singh and Chunekar (GVDB: 280, 440–441):
- common mallow (sūryāvarta) Malva sylvestris, L. Cakrapāṇidatta and Dalhana identify it with suvarcalā, itself a difficult plant to identify. Perhaps Helianthus, see T. B. Singh and Chunekar (GVDB: 280):
- corky coral tree (pāribhadra) Erythrina suberosa Roxb. See GVDB 245: 120
- costus (kustha) Saussurea costus, Clarke. See NK: 1, #2239: 70, 76, 98, 116, 121
- cottony jujube (kākolī) Ziziphus mauritanica, Lam. See IGP: 1233, NK: 1, #2663; IGP 1233. Cf. NK: 1, #1170:69,75,76
- country mallow (atibalā) Abutilon indicum, (L.) Sweet, but may be other kinds of mallow, e.g., Sida rhombifolia, L.. See NK: 1, #11, IGP: 1080, NK: 1, #2300, ADPS: 71, 77: 43, 75, 78, 163
- country sarsaparilla (anantā) Hemidesmus indicus, (L.) R. Br. See ADPS: 434, AVS: 3, 141–5, NK: 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): 43, 105, 115, 116, 120
- crape jasmine (nata) \rightarrow crape jasmine GVDB: 215: 208, 210
- crape jasmine (tagara) Tabernaemontana divaricata (L.) R.Br. ex Roem. & Schultes. See GJM1: 557, AVS: 5, 232. Synonym of crape jasmine. 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: 5, 334: 70, 76, 98, 116, 208, 210
- crimson trumpet-flower tree (pāṭalā) Stereospermum chelonides, (L. f.) A. DC. See GJM1: 573, AVS: 5, 192 ff, ADPS: 362 f, AVS: 3, 1848 f, IGP 1120, Dymock: 3, 20 ff: 120
- cucumber (trapusa) Cucumis sativus, L. See AVS: 2, 231, NK: 1, #731:
- cuscus grass (uśīra) Andropogon murcatus, Retz. Also "vetiver grass." See NK: 1, #180:98
- 'dangling' (*lambā*) unknown. See ?:
- datura (dhattūra) Datura metel, L. See AVS: 2, 305 (cf. Abhidhānamañjarī), NK: 1, #796 ff. Potter_{rev}: 292 f, ADPS: 132: 40
- deodar (bhadradāru) Cedrus deodara, (Roxb.ex D.Don) G. Don. See AVS 41, NK: 1, #516: 34, 74, 79, 116
- deodar (devadāru) Cedrus deodara (Roxb.) Loud. GVDB: 206-207: 63, 76, 163
- dhaman tree $(dhanva\dot{n}ga) \rightarrow dhammana?$ Grewia tiliaefolia, Vahl. See AVS: 3, 104, IK, AVS: 1, 386, IGP 529 (tiliifolia):
- dried ginger (śunthī) Zingiber officinale,

Roscoe. See ADPS: 50, NK: 1, #2658, AVS: 5, 435, IGP: 1232: 74 dried meat (vallūra) MW: 929, AyMahā: 1, 730. The term is used, rarely, in both the CS (1.5.10) and SS (1.13. 16, 6.42.75–76). It is a Dravidian loanword and occurs in the Arthaśāstra etc. (KEWA: 3, 167): 25 drum-giver (?) (lambaradā) Unknown; cf. GVDB: 348: 105 elixir salve ($ras\bar{a}\tilde{n}jana$) $\rightarrow a\tilde{n}jana$. See Indian barberry: 34, 44 embelia (vidanga) Embelia ribes, Burm. f. See ADPS: 507, AVS: 2, 368, NK: 1, #929, Potter_{rev}: 113: 34, 70, 116 emblic (āmalaka) Phyllanthus emblica, L. See AVS: 4, 256: 77, 78 emetic nut (karaghāta) Probably a synonym for karahāṭa (emetic nut), q.v., GVDB: 74: 209 emetic nut (karahāta) Randia dumetorum, Lamk. See GVDB: 291–292 and NK: 1, #2091. T. B. Singh and Chunekar (GVDB: 74, 77–78) noted that it may be a synonym for karaghāṭa, emetic nut, and pointed rather to Gardenia turgida Roxb. on the basis of local knowledge in U. P.: 209, 211 emetic nut (madana) Randia dumetorum, Lamk. See NK: 1, #2091: 96, 165 false daisy (subhangura) (su) bhangura = bhṛṅga? Eclipta prostrata (L.) L. See GVDB: 288: 104 fermented rice-water ($dh\bar{a}ny\bar{a}mla$) $\rightarrow k\bar{a}\tilde{n}j\bar{\iota}$, kānjikā, sauvīra. GVDB: 458, NK: 2, appendix VI, #18: 41, 42 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: 100 fire-flame bush (dhātakī) Woodfordia fruticosa (L.) Kurz. See AVS: 5, 412, NK: 1, #2626:97 green gram (*māsa*) Vigna radiata (L.) R.

five-leaved chaste tree (śephālikā) Vitex negundo, L. See NK: 1, #2603 (cf. use of leaves), IGP: 1210a, MW: 1088b: flax (atasī) Linum usitatissimum, L. See NK#1495:75 'foam-stone' (phenāśma) unknown. See ?: fragrant lotus (saugandhika) A type of *kumuda* or *utpala* (GVDB: 457): 25 galls (karkaṭa) Rhus succedanea, L. See NK: 1, #2136: garden pea (kalāya) Pisum sativum, L. See AVS: 4, 308, IGP 901; cf. NK: 1, #1940: garjan oil tree (aśvakarna) Dipterocarpus turbinatus Gaertn. f. See GVDB: 28, Chopra: 100: 120 'gentle' (somā) Ruta graveolens, L., or Sarcostemma brevistigma, W & A, etc. See NK: 1, #2179, 2228; Potter_{rev}: 262: 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: 3, 222, AVS: 3, 1717 ff: 75, 210, 212, 213 ginger (mahausadha) Zingiber officinale, Roscoe. See ADPS: 50, NK: 1, #2658, IGP: 1232: 101 'gladdener' (nandana) unknown. See ?: gold (hema) gold: 116 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": 120 golden shower tree (rājadruma) rājadruma = āragvadha. Cassia fistula L. See GVDB 37:120 golden shower tree (āragvadha) Cassia fistula L. See GVDB 37:77 gourd (alābu) Lagenaria siceraria Standl. GVDB: 25. Some say Lagenaria vulgaris, Seringe (NK: 1, #1419) but this is not appropriate for blood-letting: 21, 22, 97

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Wilcz. See ADPS: 296, IGP 1204: 34,
'gutboiler' (antrapācaka) unknown. See ?:
hare foot uraria (pr\acute{s}niparn\bar{\iota}) \rightarrow sahā?
   Uraria lagopoides, DC. See GJM1: 577,
   Dymock: 1, 426, AVS: 1, 750 ff, NK: 1,
   #2542; ADPS: 382, AVS: 2, 319 and
   AVS: 4, 366 are confusing: 74, 75
heart-leaf sida (balā) Sida cordifolia, Linn.
   See ADPS: 71, NK: 1, #2297: 43, 75, 78,
   80, 116, 163
heart-leaved moonseed (amrtavalli) See
   heart-leaved moonseed (amrtā): 162
heart-leaved moonseed (amrt\bar{a}) \rightarrow gud\bar{u}c\bar{\iota}.
   Tinospora cordifolia, (Willd.) Hook.f.
   & Thoms.? See ADPS: 38, NK: 1, #2472,
   624, Dastur #229: 98, 114, 209
heart-leaved moonseed (gudūcī) Tinospora
   cordifolia (Willd.) Miers.
   GVDB: 141–142, NK: 1, #624, #2472: 76
heart-leaved moonseed (somavallī)
   Tinospora cordifolia (Thunb.) Miers.
   GVDB: 456. Likely, but uncertain: 98
heliotrope (hastiśuṇḍa) → ibhagandhā?
   Heliotropium indicum, L. See
   AVS: 3, 136, NK: 1, #1203:
henna (madayantikā) Lawsonia inermis, L.
   See AVS: 3, 303, NK: 1, #1448,
   Potter<sub>rev</sub>: 151: 99
hill myna (sārikā) Acridotheres tristis
   tristis, L., etc. See Ali #1006, Dave
   (1985: 28 ff.), Woodcock (1980: 119):
Himalayan mayapple (vakra) Podophyllum
   emodi, Wall. (NK: #1971). But perhaps
   a synonm of crape jasmine and crape
   jasmine (GVDB: 354): 121
Himalayan monkshood (ativis\bar{a}) \rightarrow vis\bar{a}
   Aconitum heterophyllum Wall.
   GVDB: 12, NK: 1, #39. Also "atis
   roots": 67, 99, 101, 121
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Himalayan monkshood ($vis\bar{a}$) $\rightarrow ativis\bar{a}$

hogweed (*punarnavā*) Boerhaavia diffusa, L. See ADPS: 387, AVS: 1, 281, NK: 1,

GVDB: 12, 373: 212

#363:77,99,115

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Holostemma creeper (j\bar{\imath}vant\bar{\imath}) \rightarrow
   sūryavallī? Holostemma ada-kodien,
   Schultes. See ADPS: 195, AVS: 3, 167,
   169, NK: 1, #1242: 78, 212
honey (ksaudra) Eight varieties of honey
   are described in the SS (NK: 2,
   Appendix 192). Ksaudra is the product
   of a small bee of tawny colour, called
   kṣudra: 83, 101
horned pondweed (śaivāla) also śaivāla,
   śevāra. Zannichellia palustris L. The
   uncertainties of this identification are
   discussed by T. B. Singh and Chunekar
   (GVDB: 409). Sometimes identified
   with scutch grass (dūrvā) (GVDB: 409).
   Identified as Ceratophyllum demersum
   Linn. ("hornwort") by AVS: 2, 56-57x:
   76, 210, 213
hornwort (jalanīlikā) Ceratophyllum
   demersum, L. See AVS: 2, 56, IGP 232:
hornwort (jalaśūka) \rightarrow jalanīlikā.
   Ceratophyllum demersum, L. See
   AVS: 2, 56, IGP: 232. T. B. Singh and
   Chunekar (GVDB: 166) suggest horned
   pondweed. Dalhana noted on 1.16.19
   (Su 1938: 79) that some people
   interpret it as a poisonous, hairy,
   air-breathing, underwater creature: 43
horseradish tree (śigru) Moringa oleifera
   Lam. See IGP 759, GJM1: 603,
   Dymock: 1, 396: 76, 77
hyacinth bean (śimbī) Dolichos lablab, L.
   See NK: 1, #870:
Indian antelope (ena) Antilope cervicapra,
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L. See BIA: 70:

IGP: 141: 44, 100, 209

Indian barberry $(a\tilde{n}jana) \rightarrow ras\bar{a}\tilde{n}jana$, $d\bar{a}ruharidr\bar{a}$. Berberis aristata, DC.

Indian barberry (dāruharidrā) Berberis

Indian barberry ($k\bar{a}l\bar{i}yaka$) $\rightarrow d\bar{a}ruharidr\bar{a}$,

añjana. Berberis aristata, DC. See

Dymock: 1, 65, NK: 1, #335, GJM1: 562,

aristata, DC. See Dymock: 1, 65, NK: 1, #685, GJM1: 562, IGP 141: 115, 116

Dymock: 1, 65, NK: 1, #685, GJM1: 562,

Indian beech (naktamāla) Pongamia pinnata, (L.) Pierre. See AVS: 4, 339, NK: 1, #2003: 34, 72 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: 43, 76, 212 Indian kudzu ($vid\bar{a}r\bar{i}$) $\rightarrow payasy\bar{a}$. Pueraria tuberosa (Willd.) DC. See ADPS: 510, AVS: 1, 792 f, AVS: 4, 391; not Dymock: 1, 424 f. See GJM2: 444, 451, AVS: 1, 187, but AVS: 3, 1719 = Ipmoea mauritiana, Jacq: 43, 63 Indian laburnum (śampāka) Cassia fistula, L. See ADPS: 48, AVS: 2, 11 ff, AVS: 2, 854, IGP 215: Indian laurel (plaksa) Ficus microcarpa, L. f. See ADPS: 377: Indian madder (mañjisthā) Rubia cordifolia, L. See IGP, Chopra: 215, GVDB: 289: 39, 116 Indian mottled eel (varmimatsya) Almost certainly the mottled eel. MW: 962c noted that the *varmi* fish "is commonly called vāmi." The "vam fish," or "বান মাছ (bān māch)" 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 mustard (sarṣapa) Brassica juncea, Czern. & Coss. See AVS: 1, 301, NK: 1, #378:26 Indian pennywort (mandūkaparnī) Centella

asiatica (L.) Urban. See GVDB: 290,

Indian sarsaparilla $(s\bar{a}riv\bar{a}) \rightarrow anant\bar{a}$.

ADPS: 289-291:

IGP: 141: 98

Hemidesmus indicus, (L.) R. Br. ADPS: 434, AVS: 3, 141-5, NK: 1, #1210; and black creeper, pālindī. Ichnocarpus frutescens, (L.) R.Br. or Cryptolepis buchanani, Roemer & Schultes AVS: 3, 141, 3.145, 3.203, NK: 1, #1283, 1210, ADPS: 434: 115, 116, 209 Indian snakeroot (sarpagandhā) Rauvolfia serpentina, (L.) Benth. ex Kurz. See NK: 1, #2099, ADPS: 439, GVDB: 425; cf. SS 5.5.76-78: 213 Indian spinach $(p\bar{u}t\bar{\imath}k\bar{a})$ Basella alba, L. See NK: 1, #318 (rubra), ADPS: 489, AVS: 1, 253, IGP 129b: indigo (nīlinī) Indigofera tinctoria, L. See NK: 1, #1309: Indrajao (vrksaka) $\rightarrow indrayava$, indrabīja, kalinga, and kutaja. Holarrhena antidysenterica Wall. GVDB: 376, 45 and 84: 162 jackfruit (panasa) Artocarpus heterophyllus, Lam. See NK: 1, #249, IGP 99: jambul (*jambū*) Syzygium cumini, (L.) Skeels. See ADPS: 188, NK: 1, #967, Potter_{rev}: 168, Wujastyk 2003*a*: 97 jasmine (mālatī) Jasminium grandiflorum, L. See NK: 1, #1364:98 jequirity (guñjā) Abrus precatorius, L. See AVS: 1, 10, NK: 1, #6, Potter_{rev}: 168: 104, 105 jequirity (*kālakūta*) Abrus precatorius, L.? Cf. RRS 21.14. See AVS: 1, 10, NK: 1, #6, Potter_{rev}: 168: 'juice-cooker' (sārapāka) unknown. See ?: (?) (*karatā*) Not in GVDB. Cf. perhaps karahāṭa (emetic nut): 105 khesari pea (*triputa*) tripuṭa(kalāya). Lathyrus sativus, L. See IGP 651, NK: 1, #1439: koel (kokila) Eudynamys scolopacea. See Woodcock 1980: 66: kumudvatī (kumudvatī) unknown. See ?: lac (jatu) Kerria lacca (Kerr.). See

http://www.icar.org.in/ilri/default.htm:

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lac (*lākṣā*) Kerria lacca (Kerr.). See GJM1: 445, NK: 2, #32. Watt (Watt $_{Comm}$: 1053–1066) is characteristically informative, and is definite about the antiquity of lac in India: 121 lāmajja grass (*lāmajj*) Andropogon iwarancusa, Roxb. See NK: 1, #176: lāmajja grass ($u \dot{s} \bar{\imath} r a b h e d a$) $\rightarrow l \bar{a} m a j j a$. Andropogon iwarancusa, Roxb. See NK: 1, #176: leadwort (agniśikhā) Plumbago zeylanica (or rosea?), L. See NK: 1, #1966, 1967: leadwort (citraka) Plumbago zeylanica (or indica?), L. See RĀ. 6.124, ADPS: 119, NK: 1, #1966, 1967: 34, 67, 72, 82 leadwort ($p\bar{a}laka$) \rightarrow citraka. Plumbago zeylanica (indica? rosea?), L. See Rā. 6.124, ADPS: 1, 119, NK: 1, #1966, 1967: leadwort (vidyutśikhā) Synonym of agniśikhā (leadwort), q.v.: liquorice (?) (klītaka) Glycyrrhiza glabra, L.? GVDB: 123–124 discuss the many difficulties in identifying this plant: 104 liquorice (madhuka) see yastīmadhuka: 43, 74-79, 81, 101, 114, 116 liquorice (yastīmadhuka) Glycyrrhiza glabra, L. AVS: 3, 84, NK: 1, #1136, GVDB: 329 f.: 44 'little bamboo' (venukā) Bambusa bambos, Druce?. See NK: 1, #307: lodh tree (lodhra) Symplocos racemosa, Roxb. See GJM1: 597, ADPS: 279 f, NK: 1, #2420. T. B. 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* : 34, 116

lodh tree (rodhra) Symplocos racemosa, Roxb. See ADPS: 279, NK: 1, #2420: racemosa, Roxb. See ADPS: 279, NK: 1,

long pepper (māgadha) Piper longum, L. See NK: 1, #1928; but cf. AVS: 3, 245:

lodh tree (\dot{savara}) $\rightarrow lodhra$. Symplocos

#2420:

long pepper (pippalī) Piper longum, L. See ADPS: 374, NK: 1, #1928: 72, 77, 81-83, 101, 116, 162

lotus stalk (mṛṇāla) "Leaf stalk of sacred lotus" GVDB: 318: 76

luffa ($gar\bar{a}gar\bar{\iota}$) \rightarrow gargaraka? Luffa echinata, Roxb. See NK: 1, #1517:

luffa (kośātaka) = koṣītakī, luffa:

luffa (koṣātakya) Luffa cylindrica, (L.) M. J. Roem. or L. acutangula, (L.) Roxb. See ADPS: 252, NK: 1, #1514 etc:

luffa ($kos\bar{\imath}tak\bar{\imath}$) = $kos\bar{\imath}tak\bar{\imath}$. Luffa cylindrica, (L.) M. J. Roem. or L. acutangula, (L.) Roxb. ADPS: 252–253, NK: 1, #1514 etc. GVDB: 121: 97, 114, 211

luffa gourd ($kośavat\bar{\iota}$) = $koṣ\bar{\iota}tak\bar{\iota}$, luffa : 114 mahua (madhūka) Madhuca longifolia, (Koenig) Macbride. See AVS: 3, 362 f: maidenhair fern (hamsāhvayā) Adiantum lunaluatum Burm f. GVDB: 463: 162

mango (āmra) Mangifera indica Linn.

GVDB: 37:97

marking-nut tree (aruskara) Semecarpus anacardium L. See bhallātaka (marking-nut tree): 105

marking-nut tree (bhallātaka) Semecarpus anacarium, L. See NK: 1, #2269, AVS: 5, 98: 72, 100, 211

medhshingi (vijayā2) Dolichandrone falcata (DC.) The Sauśrutanighantu gives a number of synonyms for vijayā (Suvedī and Tīvārī 2000: 5.77, 10.143). But one of them, viṣānī (also *meṣaśrṅgī*), is sometimes equated with Dolichandrone falcata (DC.) Seemann (ADPS: 518; GVDB: 373 f, a plant used as an abortifacient and fish poison (NK: #862): 105

Midday flower (bandhūka) Pentapetes phoenicea, L. See NK: 1, #1836, GVDB: 268:

migraine tree (agnimantha) Premna corymbosa, Rottl. See AVS 1927, ADPS: 21, NK: 1, #2025, AVS: 4, 348;

milk-white (kṣīraśuklā) An unidentified plant. GVDB: 126: see purple roscoea and giant potato: 43, 213 mongoose (nakula) nakula. Urva edwardsii or the often sympatric U. auropunctatus (small Indian mongoose, usually an eater of smaller creatures than snakes) (BIA: ch. 5), On mongooses and snakes, see BIA: 98-99; IW: 112: 101 monitor lizard (*godhā*) Varanus bengalensis, Schneider. See Reptiles: 58: 43, 101 monkey jack (lakuca) Artocarpus lakoocha, Roxb. ex Buch.-Ham. See GJM1: 597, IGP 99, IPM 3.2338f., pace AVS: 1, 215: 'muddy' (kardama) unknown. See ?: mung beans (mudga) Phaseolus radiatus L. GVDB: 310-311: 75, 78, 146 mung beans (*māsaka*) Phaseolus mungo Linn. GVDB: 308: 98 munj grass (nārācaka) Saccharum bengalense, Retz.?. See NK: 1, #2184: myrobalan (abhayā) Terminalia chebula, Retz. See ADPS: 172, NK: 1, #2451, Potter_{rev}: 214: 67, 114, 121 myrobalans (pathyā) Terminalia chebula Retz. See NK: 1, #2451: natron (suvarcikā) Sodium carbonate. NK: 2, #45. Dalhana identifies suvarcikā with svarjikṣāra 4.8.50 (Su 1938: 441): 82, 116 neem tree (nimba) Azadirachta indica A. Juss. GVDB: 226: 40, 162 nutgrass (kuruvinda) Unknown. Dalhana 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. T. B. Singh and Chunekar (GVDB: 108) added that it could be a variety of rice, sastika dhānya : 120 nutgrass (*mustaka*) Cyperus rotundus, L.

GJM1: 523: = P. integrifolia/serratifolia,

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See ADPS: 316, AVS: 2, 296, NK: 1,
nutgrass (mustā) Cyperus rotundus, L. See
   ADPS: 316, AVS: 2, 296, NK: 1, #782:
oleander spurge (snuhī) Euphorbia
   neriifolia, L., or E. antiquorum, L. See
   ADPS: 448, AVS: 2, 388, AVS: 3, 1,
   NK: 1, #988, IGP 457b:
orpiment (haritāla) Arsenii trisulphidum.
   See NK v. 2, p. 20 ff:
panacea twiner (arkaparnī) See arkapuspī,
   panacea twiner:
panacea twiner (arkapusp\bar{\imath}) \rightarrow arkaparn\bar{\imath},
   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: 3, 171. The etymology of the
   name suggests Helianthus annus Linn.,
   but this plant is native to the Americas:
   115, 210
parakeet (śuka) Psittacula
   krameri/eupatria/cyanocephala. See
   Woodcock 1980: 64:
peacock (mayūra) Pavo cristatus. See
   Woodcock 1980: 39:
peas (harenu) harenu = satīna. Pisum
   sativum, L. T. B. Singh and Chunekar
   (GVDB: 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: 76, 115, 116, 121
peepul tree (aśvattha) Ficus religiosa, L.
   See ADPS: 63: 123
periploca of the woods (meṣaśṛṅga)
   Gymnema sylvestre (Retz.) R. Br. See
   AVS: 3, 107, NK: 1, #1173: 100
pheasant peacock (jīvajīvaka) jīvajīvaka. ?.
   See?:
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plants like asthma plant and Gulf sandmat

(*kṣīrinī*) various milky plants, perhaps

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including Euphorbia hirta Linn.
                                               purging nut (dravant\bar{\iota}) \rightarrow m\bar{u}şikaparnī.
   (asthma plant) and E. microphylla
                                                  Jatropha curcas, L. See AVS: 3, 261,
   Heyne (Gulf sandmat) (GVDB: 127):
                                                  NK: 1, #1374:
                                               purging nut (mūsikā) Jatropha curcas, L.
plumed cockscomb (indīvara) Uncertain;
                                                  See AVS: 3, 261, NK: 1, #1374: 100
   possibly Celosia argentea Linn. But see
                                               purple calotropis (arka) Calotropis
   the useful discussion in GVDB: 44-45.
                                                  gigantea, (L.) R. Br. See ADPS: 52,
   Possibly another name for thorn apple
                                                  AVS: 1, 341, NK: 1, #427, Potter<sub>rev</sub>: 57,
   (karambha), q.v.: 214
                                                  Chopra IDG: 305-308: 34, 43, 72
pointed gourd (patola) Trichosanthes
                                               purple calotropis (khadyotaka) \rightarrow arka?
   dioica, Roxb. GVDB: 232-233: 76, 114
                                                  Calotropis gigantea, (L.) R. Br. See
poison berry (brhatī) Solanum violaceum,
                                                  ADPS: 52, AVS: 1, 341, NK: 1, #427,
   Ortega. See ADPS: 100, NK: 1, #2329,
                                                  Potter<sub>rev</sub>: 63:
   AVS: 5, 151: 72, 77, 115, 116
                                               purple roscoea (kṣīrakākolī) GVDB: 89
poison-altar (?) (visavedikā) Unknown.
                                                  notes that many physicians use Roscoea
   Possibly, at a guess, visamustika
                                                  procera Wall. in this context. But the
                                                  identification is uncertain. Possibly
   (strychnine tree)? GVDB: 373 Or viṣā
   (Himalayan monkshood): 105
                                                  connected to milk-white or giant
pomegranate (dādima) Punica granatum
                                                  potato: 75, 210, 212
                                               racket-tailed drongo (bhṛṅgarāja) Dicrurus
   Linn. GVDB: 201–202: 63, 81, 82
                                                   paradiseus. See Woodcock 1980: 123:
pondweed (paripelavā) Normally a neuter
                                               radish (mūlaka) Raphanus sativus, L. See
   noun. T. B. Singh and Chunekar
   (GVDB: 238, 264-265, 409) argued that
                                                  NK: 1, #2098: 79, 80
   plava and śaivāla are the same thing, and
                                               rajmahal hemp (morata) \rightarrow m\bar{u}rv\bar{\iota},
   may be either Zannichellia palustris, L.,
                                                  Marsdenia tenacissima (Roxb.) Wight
                                                  et Arn. Good discussion at
   or Potamogeton pectinatus, L: 116
pondweed (śevāla) Zannichellia palustris
                                                  GVDB: 314-316, 324: 114
   L. See horned pondweed: 25
                                               rajmahal hemp (m\bar{u}rv\bar{\iota}) \rightarrow mora\dot{\iota}a,
portia tree (pārīṣa) Thespesia populnea
                                                  Marsdenia tenacissima (Roxb.) Wight
                                                  et Arn. Good discussion at
   (L.) Sol. ex. Corr. See ADPS: 352:
                                                  GVDB: 314–316, 324:
prickly chaff-flower (apāmārga)
   Achyranthes aspera, L. See GJM1: 524 f,
                                               rattan (vetra) Calamus rotang, L. See
   AVS: 1, 39, ADPS: 44 f, AVS: 3, 2066 f,
                                                   AVS: 1, 330, NK: 1, #413:
   Dymock: 3, 135: 39, 43, 75
                                               red chalk (gairika) gairika: 116
                                               red gourd (bimbī) Coccinia indica, W. & A.
prickly chaff-flower (vasira) also vaśīra.
   Perhaps Achyranthes aspera, L.
                                                  See PVS 1994.4.715; NK: 1, #534: 97
   GVDB: 362 describes several possible
                                               ribbed gourd (karkotaka) Luffa acutangula,
   identities, including sūryāvarta, prickly
                                                   (L.) Roxb.? (Mormodica
   chaff-flower and markatatṛṇa. See also
                                                  cochinchinensis, Spreng.? Cf. Luffa
   two kinds of salt (GVDB: 363):
                                                  tuberosa). See AVS: 3, 347 (NK: 1,
prickly chaff-flower (vaśira) See prickly
                                                  #1640 1643; NK: 1, #1520):
   chaff-flower:
                                               rice grains (tandula) Oriza sativa, Linn.
prickly-leaved elephant's foot (gojihv\bar{a}) \rightarrow
                                                  Same as unhusked rice (śāli)
                                                  GVDB: 174; or just "grains": 26
   gojī. Elephantopus scaber, L. See
                                               rice-grain chaff (śālitandulakāndana) See
   AVS: 2, 357:
```

chaff: 26 odorata, Willd. ADPS: 498, NK: 1, #1822: rock salt (saindhava) See NK: 2, M#48, Watt_{Comm}: 963–971: 26, 63, 82 scutch grass (*dūrvā*) Cynodon dactylon rosha grass (dhyāmaka) Cymbopogon (Linn.) Pers. (GVDB: 205): 210 selu plum (śelu) Cordia myxa, L. non martinii (Roxb.) Wats. See AVS: 2, 285, NK: 1, #177:116 Forssk. See GJM1: 529 (2), IGP: 291b, cf. sacred grass (kuśa) Desmostachya AVS: 3, 1677 f; cf. AVS: 2, 180 (C. dichotoma, Forst.f.), NK: 1, #672 (C. bipinnata, Stapf. See AVS: 2, 326, Kew: latifolia, Roxb.): 77, 114 sesame (tila) Sesamum indicum L. sacred lotus (kamala) Nelumbo nucifera GVDB: 183: Gaertn. GVDB: 73-74: 211 sesame oil (taila) Sesamum indicum L. sacred lotus (padma) Nelumbo nucifera, Gaertn. See NK: 1, #1698: 25, 76, 98 GVDB: 183: 43 sheep (*urabhra*) Ovis orientalis, Gmelin?. sacred lotus (prapundarīka) Nelumbo See BIA 249: nucifera, Gaertn. See Dutt 110, NK: 1, silk-cotton tree (śālmalī) Bombax malabarica. See Issar: 152: sage-leaved alangium (ankolla) Alangium salvifolium (Linn. f.) Wang. siris (śirīsa) Albizia lebbeck, Benth. See AVS: 1, 81, NK: 1, #91:114 GVDB: 5-6: 97 sage-leaved alangium (ankota) Alangium siris seeds (śirīṣamāṣaka) Albizia lebbeck, salvifolium, (L. f.) Wang. See Benth. See AVS: 1, 81, NK: 1, #91: 97 AVS: 1, 77; cf. NK: 1, #88: small-flowered crape myrtle (*sidhraka*) sal tree (śāla) Shorea robusta, Gaertn.f. See Lagerstroemia parviflora Roxb. See AVS: 5, 124: GVDB: 432: 120 'snake mallow' ($mah\bar{a}bal\bar{a}$) \rightarrow sahadevā. sandalwood (candana) Santalum album, L. Sida spinosa, L. See NK: 1, #2301, See ADPS: 111, NK: 1, #2217: 76, 78, 116 sappan wood (patanga) Caesalpinia ADPS: 74, Index Kewensis: sappan, L. See AVS: 1, 323, AVS: 2, 'snake-killer' (sarpaghāti) unknown. See ?: snakeroot ($sugandh\bar{a}$) $\rightarrow sarpagandh\bar{a}$ 847 f: Rauvolfia serpentina Benth. ex. Kurz. sappanwood (pattānga) Also pattanga. See Indian snakeroot. But may be Caesalpinia sappan, L. AVS: 1, 323, K&B: 2,847 f, GVDB: 234:44 Aristolochia indica Linn. Has been scaly, red-streaked fish (cilicima) An identified with ??, or ??. See (GVDB: 219, 436): 104 unidentified fish that is absolutely not to be eaten with milk. Described in soda crystals (*suvarjikā*) Sodium Bhela (1.12.7), Caraka (1.26.83) and carbonate. See NK: 2, #45: Suśruta (1.20.8, 13). Circular, red spikenard (jatāmāmsī) Nardostachys streaks, round eyes and prominent jatamansi DC GVDB: 163, etc: scales, and "normally goes on land.": spikenard (māmsī) Nardostachys scarlet mallow (bandhujīva) Pentapetes grandiflora, DC. See NK: 1, #1691: 116 phoenicea, L. NK: #1836, GVDB: 268: 99 spikenard (nalada) \rightarrow māmsī. Nardostachys grandiflora, DC. See scented pavonia (*bālaka*) Pavonia odorata, Willd. See ADPS: 498, NK: 1, #1822: NK: 1, #1691:95 spiny bitter cucumber (karkāruka) scented pavonia (toya) \rightarrow bālaka? Pavonia Momordica cochinchinensis (Lour.)

Spreng., (Thunb.) Cogn. SeeAVS: 2, 1135, IGP 754 (or Beninkasa hispida?AVS: 2, 1127; cf. AVS: 1, 261): strychnine tree (visamustika) Strychnos nux vomica Linn. GVDB: 373: 212 sugar (sitā) Dalhaṇa makes this equation at 1.37.25 (Su 1938: 162): 116 sugar (śarkara) Saccharum officinarum, Linn. NK: #2182: 101 sugar cane (iksu) Saccharum officinarum, Linn. NK: #2182: 101 sunflower $(s\bar{u}ryavall\bar{\iota}) \rightarrow \bar{a}dityavall\bar{\iota}$, sūryamukhī, Helianthus annūs Linn. GVDB: 35, 443: 114 swan (hamsa) hamsa. ?. See ?: sweet flag (vacā) Acorus calamus Linn. See GVDB: 352–355: 75, 82 sweet melon (ervāruka) Cucumis melo, L. See AVS: 2, 227; AVS: 2, 1140-3, IGP 325–6, NK: 1, #729 (C. momordica): sweet plants (madhuravarga) The sweet plants are enumerated at Suśrutasaṃhitā 1.42.11. See also GVDB: 127: 43 sweet-scented oleander (aśvamāra) Nerium oleander, L. See ADPS: 223, NK: 1, #1709: sweet-scented oleander (aśvamāraka) Nerium oleander, L. See ADPS: 223, NK: 1, #1709: 104 teak (śāka) Tectona grandis, L.f. See AVS: 5, 245, (MW: 1061): Tellicherry bark (kutaja) Holarrhena pubescens Wall. ex G.Don, with Wrightia tinctoria and W. arborea considered GVDB: 101–102, ADPS: 267–270: 72, 209 thorn apple (karambha) Datura metel, L. See GVDB: 76 for useful discussion. Also, AVS: 2, 305 (cf. Abhidhānamañjarī), NK: 1, #796 ff. Potter_{rev}: 292 f, ADPS: 132. Possibly the same plant as plumed cockscomb (*indīvara*) (GVDB: 76, 44–45): 105, 212 three heating spices (tryūṣana) śunthī

(Dried ginger) Zingiber officinale, Roscoe. ADPS: 50, NK: 1, #2658, AVS: 5, 435, IGP 1232, pippalī (long pepper) Piper longum, L.ADPS: 374, NK: 1, #1928, and marica (black pepper) Piper nigrum, L.ADPS: 294, NK: 1, #1929: 115 three-leaved caper (varuna) Crataeva magna (Lour.) DC. See AVS: 2, 202; cf. NK: 1, #696: 100 top layer of fermented liquor (surāmaṇḍa) K&B: 2, 502, NK: 2, appendix VI, #49, McHugh 2021: 39: 41, 42 tree cotton (kārpāsa) G. arboreum L. ADPS: 231. Pace the identifications of T. B. Singh and Chunekar (GVDB: 92, 247), since G. barbadense L. is native to South America and G. herbaceum L. which is native to Africa: 40, 214 tree cotton (*picu*) See tree cotton (*kārpāsa*): 42, 44 turmeric (gaurī) Curcuma longa, L. See ADPS: 169, AVS: 2, 259, NK: 1, #750: 76 turmeric (haridrā) Curcuma longa Linn. GVDB: 465: 77, 115, 121 turmeric (rajanī) Curcuma longa, L. ADPS: 169, AVS: 2, 259, NK: 1, #750: 26, 116 turpeth $(trivrt) \rightarrow trvrt\bar{a}$. Operculina turpethum (Linn.) Silva Manso = Ipmoea turpethum R. Br. GVDB: 197.: 70, 101, 165, 207 two kinds of salt (vasukavasira) See the discussion by T. B. Singh and Chunekar (GVDB: 362–363), who note that when vasuka is mentioned together with vasira, two varieties of salt are often meant (see ??): 63 unhusked rice (śāli) Oriza sativa, Linn.

GVDB: 395-396: 26, 213

Dutt: 278-279:

various kinds of honey (madhuvarga)

Suśrutasaṃhitā's eight categories of honey. See Suśrutasaṃhitā 1.45.132 and

velvet-leaf (pāthā) Cissampelos pariera, L.

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AVS: 1, 95; cf. AVS: 2, 277: 34, 67,
   82, 114
velvet-mite (indragopa) Kerria lacca
   (Kerr.). Lienhard 1978: 96
verbena (bh\bar{a}r\dot{n}g\bar{\iota}) \rightarrow phañjī.
   Clerodendrum serratum, L. See
   AVS: 2, 121, ADPS: 87:
verbena (phañjī) Clerodendrum serratum,
   L. See AVS: 2, 121, ADPS: 87:99
'Virāṭa's plant' (vairāṭaka) unknown. See ?:
watered buttermilk (udaśvit) MW: 183: 97
watermelon (kālindaka) Citrullus lanatus
   (Thumnb.) Matsum & Nak. See IGP
   257, NK: 1, #596, AVS: 2, 1149:
weaver's beam tree (muskaka) Schrebera
   swietenioides, Roxb. See AVS: 5, 88,
   Lord, NK: 1, #2246: 72, 120
'web-milk' (jālaksīri) unknown. See ?:
wheat (godhūma) Triticum vulgare, L. See
   HK:
white babool (arimeda) Acacia
   leucophloea, (Roxb.) Willd. See
   AVS: 1, 23: 34
white calotropis (alarka) Calotropis
   procera, (Ait.) R. Br. See NK: 1, #428,
   Chopra: 46b, Chopra IDG: 305–308: 43
white clitoria (Xsit\bar{a}) \rightarrow śvetā? Clitoria
   ternatea, L. See AVS: 2, 129, NK: 1,
white clitoria (giry\bar{a}hv\bar{a}) \rightarrow \acute{s}vet\bar{a}. Clitoria
   ternatea, L. See AVS: 2, 129, NK: 1,
white clitoria (\acute{s}vet\bar{a}) \rightarrow giry\bar{a}hv\bar{a}. Clitoria
   ternatea, L. See AVS: 2, 129, NK: 1,
   #621:98
white cutch tree (somavalka) Acacia
   polyacantha, Willd. See AVS: 1, 30, IGP
   7, GJM1: 602, AVS: 2, 935; pace NK: 1,
   #1038:99,120
white dammer tree (sarja) Vateria indica,
   L. See NK: 1, #2571, AVS: 5, 349 f,
   AVS: 1, 292 f, Chopra: 253a: 34
white siris (kinihī) Albizia procera, (Roxb.)
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Benth. See GVDB 98, NK: 1, #93: 115

See ADPS: 366, NK: 1, #592, GJM1: 573,

white teak $(k\bar{a} \pm mar\bar{\iota}) \rightarrow madhuparn\bar{\iota}$. Gmelina arborea, Roxb. See GJM1: 543, Trees: 51, ADPS: 240: 76, 78 white water-lily (kumuda) Nymphaea alba, Linn. GVDB: 105: 25 wild asparagus ($bahuputr\bar{a}$) \rightarrow nandana? Asparagus racemosus, Willd. See further wild asparagus (*śatāvarī*): 99 wild asparagus (śatāvarī) Asparagus racemosus, Willd. See ADPS: 441, AVS: 1, 218, NK: 1, #264, IGP: 103, AVS: 4, 249 ff, Dymock: 3, 482 ff: 74-76, 78, 146, 215 wild celery (agnika) \rightarrow may be bhallātaka, lāngalī, ajamodā, moraţa, or agnimantha, GVDB: 4. Uncertain: 114 wild celery (ajamodā) Apium graveolens, L.: 114 wild chinchona (kādamba) Anthocephalus cadamba, Miq. See NK: 1, #204: wild mustard (saurīyaka) Cleome viscosa, L.? (cf. Rā.4.144). See AVS: 2, 116, NK: 1, #615: Withania (aśvagandhā) Withania somnifera (L.) Dunal. See AVS: 5, 409 f, Dymock: 2, 566 f., Chevallier 150: 43, 71,77 wolfsbane (vatsanābha) Aconitum napellus, L. See AVS: 1, 47, NK: 1, #42, Potter_{rev}: 4 f. Or Aconitum chasmanthum Stapf ex Holmes, GVDB: 357: 207 wood apple (kapittha) Limonia acidissima, L. See AVS: 3, 327, NK: 1, #1021:77, 98, 100 woodrose (*mūsikakarnī*) Jatopha curcas, L. AVS: 3, 261, NK: 1, #1374. GVDB: 317; ADPS: 23–25 discuss this issue well: 98, 99 woodworm (ghuna) See note to Atharvaveda 4.16: yellow-berried nightshade (kṣudrā) Solanum virginianum, L. See ADPS: 100, NK: 1, #2329, AVS: 5, 164:

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Todo list

Can't be "sedation"	35
JG in the light of your reflections, I removed "women's fertile".	
I've put śārīram back in	61
JG could you provide a standard citation reference for this inform-	
ation?	61
I have replaced the plant-names with entries from my plant data-	
base	63
This is a change we should make in the edition	67
You need not give all the grammatical details about śrotādi. As-	
sume you are talking to knowledgeable Sanskrit scholars	68
Perhaps kalka here could also mean the Terminalia Bellerica (विभीतक).	7º
Euphorbia Antiquorum (Antique spurge)	72
The webpage https://hindi.shabd.in/vairagya-shatakam-bhag-	
acharya-arjun-tiwari/post/117629 says that this verse belongs	
to the <i>Nītiratna</i> . I could not find this text.	75
The provisional edition should be modified accordingly	77
There, Dalhana comments that deliberation on avapīda had been	
done earlier when it was mentioned. Find that description to	
know more details	79
Search for the section where the treatment of <i>ākṣepaka</i> is described.	80
Make the first letter of sentence capital	80
?	86
?	86
?	86
(?)	86
Cf. Arthaśāstra 1.21.8	94
I'm still unhappy about this verse	97

Mention this in the introduction as an example of the scribe know-
ing the vulgate
fn about sadyas+
Bear's bile instead of deer's bile
punarṇṇavā in the N & K MSS
śrita for śrta
explain more
Medical difference from Sharma
example where the vulgate clarifies that these should be used sep-
arately; appears to be a gloss inserted into the vulgate text 100
The two uses of prāpta are hard to translate. prāptā $h \rightarrow k$ sipram is
an example of the vulgate banalizing the Sanskrit text to make
sense of a difficult passage
$\sqrt{\text{vyadh not }\sqrt{\text{vedh (also elsewhere and for the ears)}}$, causative
optative
-> ativiṣa
Look up the ca. reference
Come back to the issue of "kalpa". Look up passages in the Kośa. 117
write footnote: don't repeat ativiṣā; vulgate similar to H 123
material corresponds to SS.1.45.205ab, where it describes how al-
cohol affects the body
Or "There are 20 phanins and 6 mandalins. The same number are
known. There are 13 Rājīmats." Or even, "there are 20 Phaṇins
and six of them are Mandalins." Are phanins really the same as
darvīkaras?125
grammar
ri- ṛ-?
varņa means "colour" elsewhere?
where is cutting with a knife related to removing bile or phlegm. 142
maṣī burned charcoal. Find refs
find ref
Check out these refs
meaning of kalpa
or a dual?
Footnote here about who is speaking to whom
a kind of asthma?
Not happy with the last part
connecting with the previous pāda?
connecting with the previous pada:

(atyartha? excessive?)
fordvādaśādikaḥ)? not clear to me, is it dvādaśādhikaḥ? 150
(any better medical terms for them?)
(since the word lagha is not clear to me)
(Not too happy with it.)
(not sure about it)
(Not in vulgate)
(I am looking for a better translation)
(I'd need to rework on it)
(I'd need to rework on it and think about the sequencing of the
number)
(āmadoṣa? Not too sure)
(2nd hemistich is incomplete)
(not too sure about the meaning of vyapada)
not so sure about sodāvarte
not so sure about it, MW mentions others like Cordia Myxa and
Alangium hexapetalum
not sure about it
(sāmāhāya- any better word?)
Not so happy with this translation
(Not happy with it)
(the second hemistich is incomplete)
can śṛta mean here boiled milk? Not happy with the last part 155
the rest of the text is unclear to me
(not so sure about it). [ghṛtābhyaṅgonavasthāsu should it be like
ghṛtābhyaṅgo 'navasthāsu?, svedā lepaḥ ghṛtābhyaṅgonavas-
thāsu ca yojayet] (Not so happy with the translation) 156
See also Dalhaṇa at 1.1.1 (Su 1938: 1)
See chapter 40 of Sūtrasthāna
vasā / medas / majjan
Does bhūtādi a compound or it means ahaṅkāra or ego? 167