A Translation of the New Edition of the Suśrutasaṃhitā

Jason Birch Dominik Wujastyk Andrey Klebanov

Draft of 5th April 2023 © Jason Birch and Dominik Wujastyk

Contents

The manuscripts and editions used in the vulgate editions by	⟨ā-
davaśarman Trivikrama Ācārya	5
The sources of the 1915 edition	. 5
The sources of the 1931 edition	. 5
The sources of the 1938 edition	. 6
Evaluation	
The 1939 edition	
The sources for the Bhānumatī	
The sources for the Suśrutasaṃhitā	. 10
Evaluation	. 10
Features of the manuscript transmission	12
Palaeographical features	. 12
Chart of characters	. 12
Sūtrasthāna, adhyāya 1	13
Sūtrasthāna, adhyāya 2	20
Literature	. 20
Sūtrasthāna, adhyāya 13: On Leeches	21
Literature	. 21
Previous scholarship	
Translation	. 21
Sūtrasthāna, adhyāya 16	26
Sūtrasthāna, adhyāya 28	24
Kalpasthāna, adhyāya 1	25
Literature	-
Manuscript notes	_
Translation	
[Threats to the king]	

Kalpasthāna, adhyāya 2	36
Introduction	36
Translation	36
The effects of poisons	41
Symptoms of tuber poisoning	42
Slow-acting poison	44
The stages of toxic shock	45
Remedies for the stages of slow poisoning	46
The invincible ghee	48
Curing the 'slow-acting' poison	48
Kalpasthāna, adhyāya 3	49
Introduction	49
Translation	49
The origin of poison	53
Patients beyond help	55
Uttaratantra, adhyāya 16 (17 in the vulgate)	57
Literature	57
Translation	57
[Complications]	66
[Characteristics of the probe]	67
[Complications]	67
Uttaratantra, adhyāya 38	70
Introductory remarks	70
Translation	72
Editions and Abbreviations	75
Index of Manuscripts	78
References	79
Glossary	100
Materia Medica Reference Works	10/

Glossary and Index of Medical Substances	106
On digital critical editions	126

Sūtrasthāna, adhyāya 1

- 1 Now I shall narrate the chapter on the origin of this knowledge.²³
- 2 Now, as is well-known, Aupadhenava, Vaitaraṇa, Aurabhra, Puṣkalāvata, Karavīra, Gopurarakṣita, Bhoja, Suśruta and others addressed Lord Divodāsa, king of Kāśi, the best of the immortals, who was in his ashram surrounded by an entourage of sages.²⁴
- 3 "O Lord, distress arose in our minds after witnessing people thrashing about with cries, assailed by different kinds of pain and injury (*vedanābhighāta*), feeling helpless in spite of having friends, because of diseases arising from the body, the mind and external sources.
- 4 "To quell the illnesses of those who seek happiness and for our own purpose of prolonging life, we desire the science of life (āyurveda) that is being taught. Welfare, both in this world and in the next, depends upon it. Therefore, we have come to the Lord in pupillage."
- 5 The Lord said to them:
 - "Welcome to you! My children, all of you are beyond reproach and worthy to be taught.
- 6 "As is well known, Ayurveda is the name of what is said to be the subsidiary part of the Atharvaveda. Before creating people, Svayambhū composed it in hundreds of thousands of verses and a thousand chapters and, after observing the short lifespan and low intelligence of people, he presented it again in eight parts.²⁵
- 7 "Surgery, treatment of body parts above the clavicle, general medicine, knowledge of spirits, care of children, and the disciplines of antidotes,
- 23 Dalhaṇa understood the word "knowledge (veda)" as specifically "medical knowledge." He said that the word "longevity" (āyur) had been elided. After this opening statement, later manuscripts and commentaries include the attribution, "as the venerable Dhanvantari stated." The absence of this statement in the early Nepalese manuscripts is highly significant because it removes the outer narrative frame of the Suśrutasaṃhitā (Wujastyk 2013b: 148; Klebanov 2021a: § 3.1.2; Rai 2019; Birch, Wujastyk, Klebanov, Parameswaran, et al. 2021). On the figure of Dhanvatari in medical literature, see HIML: IA 358–361.
- 24 On these persons, see HIML: IA 361–363, 369 ff. The authority Bhoja does not appear in the list as published in the vulgate edition (Su 1931:1), and was not included in HIML amongst "authorities mentioned in the *Suśrutasaṃhitā*." Meulenbeld gathered textual evidence about Bhoja at HIML: IA 690–691. Klebanov (2021*b*) has discussed these authors in the context of an anonymous commentary on the *Suśrutasaṃhitā* that cites them.
- 25 Svayambhū is another name for Brahmā, the creator.

- rejuvenation and aphrodisiacs.
- 8 "Now, a collection of the characteristics of each component of Āyurveda.
- 9 "Among them, [the component] called surgery has the goal of extracting various grasses, wood, stone, dust, iron (?), soil, bone, hair, nails, discharge of pus, malignant wounds and foreign bodies inside the womb, and of determining the application of surgical instruments, knives, caustics and fire by means of sixty definitions.
- "[The component] named the doctrine of treating body parts above the clavicles has the aim of curing diseases situated above clavicles that is, diseases located in ears, eyes, mouth, nose and so on.
- "[The component] called general medicine has the goal of curing illnesses established in the whole body and [diseases] such as fever, tumour, swelling, hemorrhagic disorders, insanity, epilepsy, urinary diseases, diarrhoea and the like.
- "[The component] called knowledge of spirits is for appeasing demons by pacification rites and making food offerings for those whose minds have been possessed by gods, their enemies, ²⁶ Gandharvas, Yakṣas, demons, deceased ancestors, Piśācas, Vināyakas, ²⁷ Nāgas and evil spirits that possess children.
- "[The component] called care of children is for bearing children and purifying defects in a wet-nurse's milk, and curing diseases that have arisen from bad breast milk and demons.
- "[The component] called the discipline of toxicology is for [knowing] the signs of poison from snake and insect bites and for neutralising various combinations of poisons.²⁸
- "[The component] called the discipline of rejuvenation is maintaining youth, bringing about a long life and mental vigour and for curing diseases.

Dānavas. The insertion marks ($k\bar{a}kapadas$) below the text at this point appears to be by the original scribe.

The vulgate doesn't have *vināyaka*s but does add *asuras*, probably under the influence of Palhaṇa. Cite Paul Courtright, Ganesha book.

²⁸ The scribal insertion marks (crosses) above the line at this point in MS K appear to be in a later hand and their referent is lost in the damaged part of the folio. Although MSS MS Kathmandu NAK 1-1079 and MS Kathmandu NAK 5-333 include spiders ($l\bar{u}t\bar{a}$) and creepy-crawlies ($sar\bar{i}srpa$) in the list, it does seem that MS K had a shorter list, and the vulgate edition adds rodents ($m\bar{u}sika$).

- "[The component] called the discipline of aphrodisiacs brings about the increase, purity, accumulation and production of semen for those whose semen is minimal, bad, depleted, and dry [respectively] and for inducing an erection.
- "Thus, this Āyurveda is taught with eight components."
 "Among these [components], tell us which is for whom."
- 18 They said, "After you have conveyed the knowledge of surgery, teach us everything."
- 19 He said, "so be it."
- They then said, "Having considered the view of all of us, when we are unanimous, Suśruta will question you. We too will learn what is being taught to him."
- 21 He said, "so be it.
- "Now, as is well-known, the aim of Āyurveda is eliminating the disease of one who have been assailed by disease and protecting the healthy; āyurveda is [that knowledge] in which they find a long life, or that by which long life is known. Learn its best component (i.e., surgery), which is being taught in accordance with tradition, perception, inference and analogy.
- "For this component is first, the most important, because it is referred to first; it cures wounds and joins together the most important thing, Yajña's head. For, just as it has been said of old, 'the head that had been cut off by Rudra was joined again by the two Aśvins.'
- "And also, of the eight disciplines of Ayurveda, [surgery] alone is the best because of the quick action of its procedures (*kriyā*), its application of blunt instruments, knives, caustics and fire, and it is common to all disciplines.
- 25 "Therefore, [surgery] is eternal, meritorious, leads to heaven, brings renown, bestows a long life, and affords a livelihood.
- 26 "Brahmā said this, 'Prajāpati learned it. From him, the Aśvins. From the Aśvins, Indra. From Indra, I. In this world, I will transmit to those who desire it for the benefit of people.'
 - [There a verse about this.].²⁹
- For, I (i.e., Brahmā) am Dhanvantari, the first god, the remover of old age, pain and death of mortals.

²⁹ This is an expansion of the scribe's abbreviation *bha* for *bhavati cātra ślokaḥ* "There is a verse about this" (sometimes plural).

Having understood surgery, the best of the great knowledge systems, I arrived on earth again to teach it here.

In this context, as far as this discipline is concerned, a human being (puru
otin a) is called an amalgam of the five elements and the embodied soul. This is where procedures $(kriy \overline{a})$ apply. This is the locus. Why?

Because of the duality of the world, the world is twofold: the stationary and the moving. Its nature ($\bar{a}tmaka$) is twofold, depending on the preponderance of Agni and Soma.³⁰ Alternatively, it can be considered as being fivefold. The multitude of beings in it are fourfold: they are termed "sweat-born, stone-born, caul-born and egg-born".³¹ Where they are concerned, the human being is the main thing; others are his support. Therefore, the human being (puruṣa) is the locus.

Diseases are said to be the conjunction of the person and suffering (duḥ-kha). There are four of them: invasive, bodily, mental and inherent. The invasive ones are caused by an injury. The bodily ones are based on food, caused by irregularities (vaiṣamya) in wind, bile, phlegm and blood.³²

The mental $(m\bar{a}nasa)$ ones, caused by desire $(icch\bar{a})$ and hatred (dveṣa), include: anger (krodha), grief $(\bar{a}śoka)$, misery (dainya), overexcitement (harṣa), lust $(k\bar{a}ma)$, depression $(viṣ\bar{a}da)$, envy $(\bar{v}rṣy\bar{a})$, jealousy $(as\bar{u}y\bar{a})$, malice $(m\bar{a}tsarya)$, and greed (lobha).

The inherent (*svābhāvika*) ones are hunger, thirst, old age, death, sleep and those of the temperament (*prakṛti*).

These too are located (adhisthāna) in the mind and body.

Scarification (lekhana), nourishment (brmhana), purification (samso-dhana), pacification (samsamana), diet ($\bar{a}h\bar{a}ra$) and regimen ($\bar{a}c\bar{a}ra$), properly employed, bring about their cure.

Furthermore, food is the root $(m\bar{u}la)$ of living beings as well as of strength (bala), complexion (varna) and vital energy (ojas). It depends on $(\bar{a}yatta)$ the six flavours (rasa). Flavours, furthermore, have substances as their substrate $(\bar{a}\acute{s}rayin)$. And substances are remedies $(oṣadh\bar{i}-).^{33}$ There are two types: stationary $(sth\bar{a}vara)$ and moving

³⁰ See Wujastyk 2004.

This fourfold classification of beings is paralleled with closely-related vocabulary in *Bhelasaṃhitā* 4.4.4 (Bhela 2000: 206; Bhela 1921: 81).

³² Note that four humoral substances are assumed here.

³³ Pāṇini 6.3.132 provides that the final vowel of the noun oṣadhi may be lengthened

(jaṅgama).

- Of these, there are four types of stationary ones: fruit trees (*vanaspati*), flowering trees (*vṛkṣa*), herbs (*oṣadhi*) and shrubs (*vīrudh*).³⁴ Amongst these, the "fruit trees" have fruit but no flowers.³⁵ The "flowering trees" have flowers and fruit. The "herbs" die when the fruit is ripe. "Shrubs" put out shoots.
- As is well known, moving remedies are also of four types: those born in in a caul (*jarāyuja*), those born from eggs (*aṇḍaja*), those born of sweat (*svedaja*), and shoots (*udbhid*). Amongst these, those born in a caul include animals (*paśu*), humans, and wild animals (*vyāla*). Birds, creepycrawlies (*sarīṣṛpa*) and snakes are "born of eggs." Worms (*kṛmi*), small insects (*kunta*) and ants (*pipīlika*) and others are born of sweat.³⁶ Shoots include red velvet mites (*indragopa*) and frogs (*maṇḍūka*).³⁷|
- In this context, among the stationary remedies, skin (tvak), leaves (patra), flowers (puṣpa), fruits (phala), roots ($m\bar{u}la$), bulbs (kanda), sap ($kṣ\bar{t}ra$), resin ($niry\bar{a}sa$), essence ($s\bar{a}ra$), oil (sneha), and juice extract (svarasa)³⁸ are useful; among the moving remedies pelt (carman), hair, nails, and blood (rudhira) and so forth.
- 34 And earth products (*pārthiva*) include gold and silver.³⁹
- The items created by time ($k\bar{a}lak\dot{r}ta$) are clusters (samplava) as far as wind and no wind ($niv\bar{a}ta$), heat and shade, darkness and light and the cold, hot and rainy seasons ($vars\bar{a}$) are concerned. The divisions of
 - $(\rightarrow o sadh \bar{\iota})$ under certain conditions. These conditions require that the word be used in a Vedic mantra and not in the nominative. Neither condition is met in this passage, yet the author uses the form $o sadh \bar{\iota}$. This form is in fact not uncommon in medical literature as well as in epics, purānas, smrtis, and other parts of Sanskrit literature.
- 34 Ca.sū.1.71–72 also describes these four types of medicinal plant in similar terms but with slightly differing names: *oṣadhi* is a plant that ends after fruiting, *vīrudh* is a plant that branches out, *vanaspati* is a tree with fruit, and *vānaspatya* is a tree with fruit and flowers.
- 35 The MSS agree in reading *phalavantyaḥ* "having flowers" which is grammatically non-standard. This form is also found in the *Viṣṇudharmottarapurāṇa* (1.92.27, 1.92.27 Viṣṇudh.: 56r).
- 36 The word *kunta*, though marked as "lexical" in most dictionaries, is in fact found in literature, commonly as a compound with *pipīlika*; the compound sometimes seems to be understood a type of ant (*tatpuruṣa* compound) rather than as a pair of insects (*dvandva* compound).
- 37 On *indragopa*, see Lienhard 1978.
- 38 On juice extract (*svarasa*) see CS 1.1.73, 1.4.7; Dalhana on 4.10.12 (Su 1938: 450).
- 39 The flow of concepts in the treatise seems to be interrupted here.

time are the blink of the eye (nimeṣa), a trice ($k\bar{a}ṣṭh\bar{a}$), minutes ($kal\bar{a}$), three-quarters of an hour ($muh\bar{u}rta$), a day and night ($ahor\bar{a}tra$), a fort-night (pakṣa), a month ($m\bar{a}sa$), a season (rtu), a half-year (ayana), a year (samvatsara), and yuga (yuga).

These naturally cause accumulation (*sañcaya*), irritation (*prakopa*), pacification (*upaśama*) and alleviation (*pratīkāra*) of the humours (*doṣa*). And they have practical purposes (*prayojanavat*).

[There are verses about this:]⁴¹

- This fourfold category is taught by physicians as a cause for the agitation and quelling of bodily diseases.⁴²
- There are two kinds of invasive diseases. Some certainly⁴³ affect $(ni\sqrt{pat})$ the mind, others the body. Their treatment $(kriy\bar{a})$ is of two kinds too.
- For those that affect the body there is physical (śārīravad) therapy, whereas for those that affect the mind there is the collection (varga) of desirable sensory experiences like sound that bring comfort (sukha).
- 40 Along these lines (*evam*), this brief explanation of the four factors (*catuṣtaya*) is given:
 - human being (puruṣa),
 - disease (vyadhi),
 - remedies (oṣadhi),
 - the time for therapies (*kriyākāla*).

In this context,

• from the mention of the word "human," the collection of substances that arise from it, such as the elements, and the particulars (*vikalpa*) of its major and minor parts (*aṅga*) such as skin (*tvak*),

⁴⁰ These units are presented at 1.6.5 (Su 1938: 24) and discussed by Hayashi (2017: § 59).

⁴¹ See footnote 29.

⁴² On the topic of the "group of four," the commentator Dalhana considers them to be "food, behaviour, earthen products and items created by time." He refers to the author of the lost commentary entitled \$Pa\tilde{n}jik\tilde{a}\$, and to Jejjaṭa (HIML: IA, 372–3, 192). In his view, these early commentators do not agree that the fourfold grouping (\$caturvarga\$) refers to the quartet of stationary (\$sth\tilde{a}vara\$), moving (\$jangama\$), earthen products (\$p\tilde{a}rthiva\$) and items created by time (\$k\tilde{a}lakrta\$) (Su 1938: 9a).

⁴³ The text uses an archaic interjection here, ha.

- flesh $(m\bar{a}msa)$, ducts $(sir\bar{a})$, sinews $(sn\bar{a}yu)$, bones (asthi) and joints (sandhi) are meant.
- From the mention of "diseases," all diseases caused by wind, bile, phlegm, congested humours (*sannipāta*), external factors (*āgantu*) and inherent factors (*svabhāva*) are intended (*vyākhyāta*).
- From the mention of "remedies," there is the teaching of substances, tastes, potencies, post-digestive tastes.
- From the mention of "procedures $(kriy\bar{a})$," therapies (karman) such as oiling and excision (chedya) are taught.
- From the mention of the word "time," every single teaching about the times for procedures is meant.

[There is a verse about this:]44

- This seed of medicine has been declared in brief. Its explanation will be given in one hundred and twenty chapters.⁴⁵
- There are one hundred and twenty chapters in five sections (*adhyāya*).⁴⁶ In that regard, having divided them, according to their subject matter, into the Ślokasthāna, the Nidāna, the Śārīra, the Cikitsita and the Kalpa, we shall mention this in the Uttaratantra.⁴⁷

[There is a verse about this:]⁴⁸

Someone who reads this eternal proclamation of the King of Kāśī, that was declared by Svayambhu, will have good karma on earth, will be respected by kings and upon death will achieve the world of Śakra.

⁴⁴ See footnote 29.

This is the number of chapters in the first five sections of the work, namely the *Sūtra-, Nidāna-, Śārīra-, Cikitsā-* and *Kalpa-sthānas*. These have 46, 16, 10, 40 and 8 chapters respectively. The *Uttaratantra* has 66 chapters.

⁴⁶ On viṃśa in the sense of "greater by 20" see P.5.2.46 śadantaviṃśateś ca.

⁴⁷ The end of this sentence reads oddly. The vulgate edition adds an object: "[we shall mention] the remaining topics [in the Uttara]" which smooths out the difficulty, but this is supported in none of the Nepalese MSS. At the start of the Uttaratantra (susr-trikamji3) there is indeed a statement that picks up the point about there being 120 chapters.

⁴⁸ See footnote 29.

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 venomous ones, together with the therapy:
 - Black (kṛṣṇā)
 - Mottled (karburā)
 - Sting-gush (alagarddā)⁵⁸

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

This passage is not found in the vulgate, but it is similar to the passage cited by Palhaṇa 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 *Suśrutasaṇhitā* (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

- 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.

- 12 Now the ones without venom.⁶¹
 - Tawny (*kapilā*)
 - Ruddy (pingalā)
 - Dart-mouth (*śańkumukhī*)
 - Mouse (*mūsikā*)
 - Lotus-mouth (puṇḍarīkamukhī)
 - Sāvarikā (*sāvarikā*)

Amongst these,

(2014: 1023, verse 20 and cf. commentary). But if गर्द is to be taken from $\sqrt{\eta \dot{\xi}}$ 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.

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 (京村) and "Pautana" as the Mathurā region. He also noted, as did Cakrapāṇidatta (Su 1939: 97), that this passage was not included by some authorities on the grounds that the habitats of poisonous and non-poisonous creatures are defined by

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.
- In that context, the venomous leeches are those originating in decomposing venomous insects, frogs, urine, feces and in polluted water. The , non-venomous ones originate in decomposing sacred lotus, blue water-lily, white water-lily, fragrant lotus, horned pondweed and in pure waters.

There is a verse on this:

These ones move about in sweet-smelling habitats that are abundant with water. Traditionally, they do not behave in a confused manner or lie in the mud.⁶⁵

They can be grasped with a fresh hide or in other ways. Having grasped them,

Dalhana?

then these should be put into a large new pot furnished with mud and the water from lakes or wells. One should provide what they need to eat. After grinding up horned pondweed, dried flesh, and aquatic roots, every three days one should give them grass to lie on, aquatic leaves water food. Every week, one should make them crawl into a different pot.

jalabhakta

17

other criteria.

⁶⁴ The vulgate on 4.13.14 (Su 1938: 57) includes fish in this list.

⁶⁵ Dalhaṇa on 1.13.14 (Su 1938: 57) explains सङ्कीणंचारिन, "behaving in a confused manner" as विषादिविरुद्धाहारभुजः that presumably means that they do not eat unwholesome foods like poisons. Cf. Dalhaṇa's gloss of विरुद्ध as अहित at 4.23.4 (Su 1938: 485).

Editions and Abbreviations

Ah 1939 Kuṃṭe, Aṇṇā Moreśvara, Navare, Kṛṣṇaśāstrī, and Parādkar, Hariśāstrī (1939) (eds.), श्रीमद्वाग्भटविरचितम् अष्टाङ्गहृद्यम्, श्रीमद्रुणदृत्तविरचितया सर्वाङ्गसुन्द्राख्यया व्याख्यया, हेमाद्रिप्रणीतया आयुर्वेद्रसायनाह्वया टीकया च समुल्लस्तिम् = The Astāngahṛidaya (6th edn., Muṃbayyām: Nirṇayasāgara Press), ark:/13960/t3tt6967d.

Anup Anup Sanskrit Library.

Apte Apte, Vaman Shivaram (1992), *The Practical Sanskrit-English Dictionary* (Kyoto: Rinsen Book Company), ISBN: 4-653-00038-7; Reprinted from Gode and Karve 1957–59.

AS Asiatic Society.

As 1980 Āṭhavale, Anaṃta Dāmodara (1980) (ed.), अष्टाङ्गसङ्ग्रहः श्रीमद्द्र-द्धवाग्भटविरचितः इन्दुव्याख्यासहितः [= Vāgbhaṭa's Aṣṭāṅgasaṅgraha with Indu's Commentary] (Puṇe: M. A. Āṭhavale, Śrīmad Ātreya Prakāśanam), ark:/13960/s25bwqsd0n7.

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

Bhela 2000 Krishnamurthy, K. H. (2000), *Bhela-saṃhitā. Text with English Translation, Commentary and Critical Notes* (Haridas Ayurveda Series, 8; Varanasi: Chaukhambha Visvabharati).

BL British Library.

Ca. 1941 Ācārya, Yādavaśarma Trivikrama (1941) (ed.), महर्षिणा पुनर्वसुनोपदिष्टा, तिच्छिष्येणाग्निवेशेन प्रणीता, चरकदृढबलाभ्यां प्रतिसं-स्कृता चरकसंहिता, श्रीचकपाणिदत्तिवरिचतया आयुर्वेददीपिकाव्याख्यया संविलता (3rd edn., Mumbayyām: Nirnaya Sagara Press), ark:/13960/t48q2f20n.

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.

MN₁ Ācārya, Yādavaśarma Trivikrama (1920) (ed.), महामतिश्रीमाधवकरप्रणीतं माधवनिदानम् श्रीविजयरक्षित-श्रीकण्थदत्ताभ्यां विरचितया
मधुकोशाख्यव्याख्यया, श्रीवाचस्पतिवैद्यविरचितया आतङ्कदर्पणव्याख्याया
विशिष्टांशेन च समुल्लिसितम् = Mādhavanidāna by Mādhavakara
with the Two Commentaries, Madhukosha by Vijayarakshita
& Shrīkanthadatta and Ātankadarpaṇa by Vāchaspati Vaidya
(1st edn., Bombay: Nirnaya Sagara Press), ark:/13960/
t9z08jn5j.

MN3 Ācārya, Yādavaśarma Trivikrama (1932) (ed.), महामितश्रीमाधवकरप्रणीतं माधविनदानम् श्रीविजयरक्षित-श्रीकण्थदत्ताभ्यां विरचितया
मधुकोशाख्यव्याख्यया, श्रीवाचस्पतिवैद्यविरचितया आतङ्कदर्पणव्याख्याया
विशिष्टांशेन च समुल्लिसितम् = Mādhavanidāna by Mādhavakara
with the Two Commentaries, Madhukosha by Vijayarakshita
& Shrīkanthadatta and Ātankadarpaṇa by Vāchaspati Vaidya
(3rd edn., Bombay: Nirnaya Sagara Press), ark:/13960/
t66452x0h; Reprinted Varanasi: Chowkhambha, 1986.

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.

Ācārya, Yādavaśarma Trivikrama (1915) (ed.), सुश्रुतसंहिता, सुश्रुतेन विरचिता, वैद्यवरश्रीडल्हणाचार्यविरचितया निवन्धसंग्रहाख्यव्याख्यया समुल्लसिता, आचार्योपाह्वेन त्रिविकमात्मजेन याद्वश्चर्मणा संशोधिता = The Sushrutasamhita of Sushruta, the Nibandhasangraha Commentary of Shri Dalhaṇāchārya (Mumbayyāṃ: Nirṇayasāgaramudrāyantrālaye), ark:/13960/t3sv0mt50, accessed 29/07/2020; HIML: IB, 312 edition *v.

Acārya, Yādavaśarma Trivikrama (1931) (ed.), सुश्रतसंहिता, वैद्यवरश्रीडल्हणाचार्यविरचितया निबन्धसंग्रहाख्यव्याख्यया
समुल्लिसता, महर्षिणा सुश्रुतेन विरचिता, सूत्र-निदान-शारीर-चिकित्साकल्पस्थानोत्तरतन्त्रात्मकः. आचार्योपाह्वेन त्रिविकमात्मजेन यादवशर्मणा
संशोधिता = The Sushrutasaṃhitā of Sushruta with the Nibandhasangraha Commentary of Shree Dalhaṇāchārya (2nd edn.,
Mumbayyāṃ: Pāṇḍuraṅga Jāvajī at the Nirṇayasāgaramudrāyantrālaye), ark :/ 13960 / t9j41sg94, accessed
09/06/2020; HIML: IB, 312 edition *v.

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

Su 1938² Ācārya, Yādavaśarma Trivikrama, and Ācārya, Nārāyaņa Rāma (2004) (eds.), महर्षिणा सुश्रुतेन विरचिता सुश्रुतसंहिता,

श्रीडल्हणाचार्यविरचितया निबन्धसंग्रहाख्यव्याख्यया निदानस्थानस्य श्री-गयदासाचार्यविरचितया न्यायचिन्द्रकाख्यपञ्जिकाव्याख्यया च समुष्ठसिता (Vārāṇasī: Caukhambhā Kṛṣṇadāsa Akādamī); Reprint of the third, 1938 edition (Su 1938).

Su 1939

Ācārya, Yādavaśarma Trivikrama, and Śarman, Nandakiśora (1939) (eds.), सुश्रुतसंहितायाः सूत्रस्थानम्. श्रीचक्रपाणिदत्तविरचितया भानुमतीव्याख्याया समेतम् = Sushrut-sañhitā (sūtra Sthān) with Bhānumatī Commentary by Chakrapāṇi Datta with Introduction by Gaṇanāth Sen (Śrīsvāmi Lakṣmīrāma Nidhi Granthamālā = Shrī Swāmī Lakshmī Rām Trust Series, 1; [Jaipur]: Śyāmasundara Śarman), ark:/13960/t54g0d12m; Printed at the Nirṇayasāgara Press, Bombay.

Su 1945

Ācārya, Yādavaśarma Trivikramācārya, and Ācārya, Nārāyaņa Rāma (1945) (eds.), महर्षिणा सुश्रुतेन विरचिता सुश्रुतसंहिता (मू-लमात्रा). पाठान्तर-परिशिष्टादिभिः संवलिता = the Suśrutasaṃhitā of Suśruta with Various Readings, Notes and Appendix etc. (Mumbāi: Nirṇayasāgarākhyamudraṇālaye), ark:/13960/t8kd4jh7n.

TMSSML

Tanjore Maharaja Serfoji Saraswati Mahal Library.

Vișnudh.

Śarman, Madhusūdana, and Śarman, Mādhavaprasāda (1912) (eds.), विष्णुधर्मोत्तरपुराणम् = [Viṣṇudharmottarapurāṇa] (Mumbai: Khemarāja Śrīkṛṣṇadāsa at the Śrīveṅkaṭeśvara Steam Press), ark:/13960/t6qz6fr23; Lithograph format. Edited on the basis of a manuscript belonging to the astrologer Śudhākaraśarman of the Varanasi Sanskrit Pāthaśālā.

Index of Manuscripts

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

Kathmandu NAK 1-1079: 14, 21 Kathmandu NAK 1-1146: 21 Kathmandu NAK 5-333: 14

Thanjavur TMSSML 10773: 75

References

- Ācārya, Yādavaśarma Trivikrama (1941) (ed.), महर्षिणा पुनर्वसुनोपदिष्टा, तच्छि-घ्येणाग्निवेशेन प्रणीता, चरकदृढबलाभ्यां प्रतिसंस्कृता चरकसंहिता, श्रीचक्रपाणिदत्तविरचितया आयुर्वेददीपिकाव्याख्यया संविलता (3rd edn., Mumbayyāṃ: Nirnaya Sagara Press), ark:/13960/t48q2f20n.
- Ācārya, Yādavaśarma Trivikramācārya, and Ācārya, Nārāyaṇa Rāma (1945) (eds.), महर्षिणा सुश्रुतेन विरचिता सुश्रुतसंहिता (मूलमात्रा). पाठान्तर-परिशिष्टादिभिः संवलिता = the Suśrutasaṃhitā of Suśruta with Various Readings, Notes and Appendix etc. (Mumbāi: Nirṇayasāgarākhyamudraṇālaye), ark:/13960/t8kd4jh7n.
- Acharya, Diwakar (2012), "Description of Microfilm A 45/5," NGMCP, URL, accessed 27/02/2023.
- Adriaensen, Rob, Barkhuis, Roelf, and Ruijters, Jean-Louis (1984), "An English Translation of Suśrutasaṃhitā, Nidānasthāna 1, 1–39, Together with Gayadāsa's Nyāyacandrikā," in Gerrit Jan Meulenbeld (ed.), Proceedings of the International Workshop on Priorities in the Study of Indian Medicine (Groningen: Forsten), 277–310.
- Adriaensen, Rob C. R., Barkhuis, Roelf, and Ruijters, Jean-Louis (1984), "An English Translation of Suśrutasaṃhitā, Nidānasthāna 1, 1–39, Together with Gayadāsa's Nyāyacandrikā," in Gerrit Jan Meulenbeld (ed.), Proceedings of the International Workshop on Priorities in the Study of Indian Medicine (Groningen: Forsten), 277–310.
- Āgāśe, Ve. Śā. Rā. Rā. Kāśīnātha Śāstrī, and Āpaṭe, Hari Nārāyaṇa (1904) (eds.), वाचस्पतिमिश्रविरचितटीकासंविठतव्यासभाष्यसमेतानि पातञ्जल-योगसूत्राणि तथा भोजदेवविरचितराजमार्तण्डाभिधवृत्तिसमेतानि पातञ्जलयोगसूत्राणि (Ānandāśramasaṃskṛtagranthāvaliḥ, 47; Puṇyākhya-pattana: Ānandāśramamudraṇālaya), ark:/13960/t40s27g36.
- Agrawal, V. S. (1963), *India As Known to Pāṇini: A Study of the Cultural Material in the Aṣṭādhyāyī* (2nd edn., Varanasi: Prthvi Prakashan); First published in 1953.
- Angermeier, Vitus (2020), Regenzeiten, Feuchtgebiete, Körpersäfte. Das Wasser in der klassischen indischen Medizin (Wien: Österreichische Akademie der Wissenschaften).

- Azeez Pasha, M. (1971), "English Translation of Madan-ul-Shifa, Tibbe Sikandar Shahi (Sikandar Shah's Mine of Medicine)," Bulletin of the Department of History of Medicine (Osmania University, Hyderabad), 2/4: 227–2324; continued in BDHM 3(1) 29–38; BIHM 1(3/4) 127–134; & BIHM 2(1), 17–22.
- Baber, Zaheer (1996), *The Science of Empire: Scientific Knowledge, Civilization, and Colonial Rule in India* (Albany: State University of New York Press).
- Bakker, Hans T. (2019), "Some Methodological Considerations with Respect to the Critical Edition of Puranic Literature," in *Holy Ground:* Where Art and Text Meet (Leiden: Brill), 175–84. DOI: 10.1163/9789004412071010.
- Barceloux, Donald G. (2008), *Medical Toxicology of Natural Substances*. Foods, Fungi, Medicinal Herbs, Plants, and Venomous Animals (Hoboken, NJ, etc.: John Wiley & Sons), ISBN: 047172761X.
- Bausi, Alessandro, et al. (2015), *Comparative Oriental Manuscript Studies. An Introduction* (Hamburg: Tredition). DOI: 10.5281/ZENOD0.46784.
- Bedekar, V. M. (1967), "The Legend of the Churning of the Ocean in the Epics and the Purāṇas: A Comparative Study," *Purāṇa*, 9/1: 7–61, ark:/13960/t57d2r97r.
- Bendall, Cecil (1883), Catalogue of the Buddhist Sanskrit, Manuscripts in The, University Library, Cambridge: With Introductory Notices and Illustrations of the Palaeography and Chronology of Nepal and Bengal (Cambridge: University Press), ark:/13960/t03x8vz7b.
- Bhaṭṭācārya, Candrakānta (1910–17) (ed.), सुश्रुतसंहिता प्रथमखण्डम् सूत्रस्थानात्म-कम् हाराणचन्द्रचक्रवर्तिकविराजविरचितसुश्रुतार्थसन्दीपनभाष्य-समेतम्...चन्द्रकान्त भट्टाचार्य्य-प्रमुखैः संशोधितम् = [The Suśrutasaṃhitā with the Commentary Suśrutārthasandīpanabhāṣya by Hārāṇacandra Cakravarti] (Kalikātā: Satya Press); Edition "t" in HIML: IB, 312.
- Bhattarai, Bidur (2020), *Dividing Texts. Conventions of Visual Text-Organisation in Nepalese and North Indian Manuscripts* (Studies in Manuscript Cultures; Berlin/Boston: de Gruyter), 388.
- Birch, Jason, Wujastyk, Dominik, Klebanov, Andrey, Parameswaran, Madhu K., et al. (2021), "Further Insight into the Role of Dhanvantari, the Physician to the Gods, in the Suśrutasaṃhitā," *Academia Letters*. DOI: 10.20935/AL2992.

- Birch, Jason, Wujastyk, Dominik, Klebanov, Andrey, Rimal, Madhusudan, et al. (2021), "Dalhaṇa and the Early 'Nepalese' Version of the Suśrutasaṃhitā." doi: 10.20935/al3733.
- Bollée, Willem (2010), "Remarks on the Cultural History of the Ear in India," in Nalini Balbir (ed.), *Svasti: Essays in Honour of Professor Hampa Nagarajaiah for His 75th Birthday* (Bangalore: K. S. Mudappa Smaraka Trust), 141–67, URL, accessed 23/01/2022.
- Breton, P. (1826), "On the Native Mode of Couching," *Transactions of the Medical and Physical Society of Calcutta*, 2: 341–82, ark:/13960/t3dz8nn5t, URL, accessed 02/06/2021.
- Bronkhorst, Johannes (2016), *How the Brahmins Won: From Alexander to the Guptas* (Leiden: Brill). DOI: 10.1163/9789004315518.
- —— (2021), "Patañjali's Āryāvarta = Śuṅga realm?," *Academia Letters*. DOI: 10.20935/al291; Article 291.
- Bronner, Yigal (2021) (ed.), "The Pandit Project" (30 Sept.), URL.
- Brooks, Lisa Allette (2018), "Epistemology and Embodiment: Diagnosis and the Senses in Classical Ayurvedic Medicine," *Asian Review of World Histories*, 6: 98–135. DOI: 10.1163/22879811–12340027.
- —— (2020*a*), "A Surgeon's Hand: Reflections on Surgical Tactility in Early Ayurveda," *Asian Medicine*, 15/1: 30–62. DOI: https://doi.org/10.1163/15734218-12341460, URL.
- ——(2020*b*), "The Vascularity of Ayurvedic Leech Therapy: Sensory Translations and Emergent Agencies in Interspecies Medicine," *Medical Anthropology Quarterly*, 35/1: 82–101. DOI: 10.1111/maq.12595.
- ——(2020c), "Whose Life is Water, Whose Food is Blood: Fluid Bodies in Āyurvedic Leech Therapy," in Natalie Köhle and Shigehisa Kuriyama (eds.), Fluid Matter(s): Flow and Transformation in the History of the Body (Asian Studies Monograph Series, 14; Canberra: ANU Press). DOI: 10.22459/fm.2020.
- Burghart, Marjorie (2016), "The TEI Critical Apparatus Toolbox: Empowering Textual Scholars through Display, Control, and Comparison Features," *Journal of the Text Encoding Initiative*, 10/Issue 10. DOI: 10.4000/jtei.1520.

- Burghart, Marjorie (2017), "Textual Variants," in Marjorie Burghart, James Cummings, and Elena Pierazzo (eds.), *Digital Editing of Medieval Texts: A Textbook* (DEMM), URL, accessed 04/07/2021.
- Burnell, Arthur Coke (1880), A Classified Index to the Sanskrit Mss. in the Palace at Tanjore (London: Trübner), ark:/13960/t4xh86j61; Bhelasamhitā described on pp. 67 ff.
- Carpue, J. C. (1816), An Account of Two Successful Operations for Restoring a Lost Nose from the Integuements of the Forehead...Including Descriptions of the Indian and Italian Methods (London: Longman et al.), ark:/13960/t2q57fn42, accessed 20/03/2019.
- Chadha, Gita, and Thomas, Renny (2022) (eds.), *Mapping Scientific Method: Disciplinary Narrations* (Science and Technology Studies; Abingdon and New York: Routledge). DOI: 10.4324/9781003298908.
- Cone, Margaret (2001), *A Dictionary of Pāli* (Oxford: The Pali Text Society), ISBN: 0 86013 394 x.
- Cordier, P. (1903), "Récentes découvertes de mss. médicaux sanscrits dans l'Inde (1898–1902)," *Muséon, Nouvelle Série*, 4: 321–52, ark:/13960/t26b2j457, accessed 02/01/2020; Reprinted in Roşu 1989: 539–70.
- Coult, Ro. (1731), "An Account of the Diseases of Bengall," in *Indian Science* and *Technology in the Eighteenth Century* (Impex India), 141 f., 276.
- Crawford, D. G. (1930), *Roll of the Indian Medical Service*, 1615–1930 (London, Calcutta, Simla: Thacker).
- Dave, K. N. (1985), *Birds in Sanskrit Literature* (Delhi: Motilal Banarsidass), ISBN: 0-89581-676-8, ark:/13960/t2c94cv80.
- Deshpande, Madhav (1988), "Pāṇini and the Northwestern Dialect: Some Suggestions on Sūtra 3.3.10," in Mohammad Ali Jazayery and Werner Winter (eds.), *Languages and Cultures: Studies in Honor of Edgar C. Polomé*, xxxvi (Trends in linguistics. Studies and monographs; Berlin, New York: Mouton de Gruyter), 111–23.
- Deshpande, Madhav M. (2010), "Pañca Gauḍa and Pañca Drāviḍa: Contested Borders of a Traditonal Classification," in Klaus Karttunen (ed.), Anantaṃ Śāstram. Indological and Linguistic Studies in Honour of Bertil Tikkanen (Studia Orientalia, 108; Helsinki: Finnish Oriental Society), 29–58, ISBN: 9789519380742.

- Deshpande, Vijaya (1999), "Indian Influences on Early Chinese Ophthalmology: Glaucoma As a Case Study," *Bulletin of the School of Oriental and African Studies*, 62: 306–22. DOI: 10.1017/S0041977X00016724.
- —— (2000), "Ophthalmic Surgery: A Chapter in the History of Sino-indian Medical Contacts," *Bulletin of the School of Oriental and African Studies*, 63/3: 370–88, ISSN: 0041-977X. DOI: 10.1017/s0041977x00008454.
- Deshpande, Vijaya Jayant (2019), "An Investigation into Ancient Greco-Indian Medical Exchanges: Sostratus vs Suśruta," *Indian Journal of History of Science*, 54/2: 144–61. DOI: 10.16943/ijhs/2019/v54i2/49659.
- Dimitrov, Dragomir, and Tamot, Kashinath (2007), "Kaiser Shamsher, His Library and His Manuscript Collection," *Kaiser Shamsher, His Library and His Manuscript Collection*, 3 (Jan.): 26–36, URL.
- Eaton, Richard M. (1993), *The Rise of Islam and the Bengal Frontier*, 1204–1760 (Berkeley: University of California Press), ark:/13030/ft067n99v9/.
- Edgerton, Franklin (1939), "The Epic Triṣṭubh and Its Hypermetric Varieties," *Journal of the American Oriental Society*, 59/2: 159–74. DOI: 10.2307/594060.
- —— (1953), Buddhist Hybrid Sanskrit Grammar and Dictionary. Vol. 2: Dictionary (William Dwight Whitney Linguistic Series; New Haven: Yale University Press).
- 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.
- Elliot, Robert Henry (1918), The Indian Operation of Couching for Cataract: Incorporating the Hunterian Lectures Delivered before the Royal College of Surgeons of England on February 19 and 21, 1917 (London: H. K. Lewis).
- Emeneau, M. B. (1969), "Sanskrit Syntactic Particles "kila, khalu, nū-nam"," *Indo-Iranian Journal*, 11/4: 241–68.
- Falk, Harry (1991), "Silver, Lead and Zinc in Early Indian Literature," *South Asian Studies*, 7/1: 111–7. DOI: 10.1080/02666030.1991.9628430.
- Fan, Ka Wai (2005), "Couching for Cataract and Sino-indian Medical Exchange Fromthe Sixth to the Twelfth Century Ad," *Clinical and Experimental Ophthalmology*: 188–90. DOI: 10.1111/j.1442-9071.2005.00978.x; Unaware of V. Deshpande 1999; 2000.

- Fitzgerald, James L. (2009), "A Preliminary Study of the 681 Triṣṭubh Passages of the Mahābhārata," in Robert P. Goldman and Muneo Tokunaga (eds.), *Epic Undertakings* (Papers of the 12th World Sanskrit Conference; Delhi: Motilal Banarsidass Publishe), 95–117.
- Froese, R., and Pauly, D. (2022) (eds.), "Fishbase: The Global Encyclopedia about Fish," URL.
- Gaṇapatiśāstrī, T. (1920–25), Āryamañjuśrīmūlakalpaḥ (Trivandrum Sanskrit Series, 70; Anantaśayane: Rājakīyamudraṇayantrālaye), ark:/13960/t4pk5sj0j.
- Gode, P. K., and Karve, C. G. (1957–59) (eds.), Revised and Enlarged Edition of Prin. V. S. Apte's the Practical Sanskrit-English Dictionary (Poona: Prasad Prakashan), ark:/13960/t3gx47212, accessed 20/10/2017.
- Gombrich, Richard (1979), "'He Cooks Softly': Adverbs in Sanskrit Grammar," *Bulletin of the School of Oriental and African Studies*, 42/2: 244–56. DOI: 10.1017/s0041977x0014580x.
- Gupta, Parmanand (1973), *Geography In Ancient Indian Inscriptions* (*Up to 650 A.D.*) (Delhi: D. K. Publishing House), ark:/13960/t3907cf2d.
- —— (1989), Geography from Ancient Indian Coins & Seals (New Delhi: Concept Publishing Company), ISBN: 9788170222484.
- Gupta, Sri Madhusudana (1835–36) (ed.), Āyur-veda-prakāśa [also Called Suśruta-saṃhitā] by Suśruta. the Suśruta, or System of Medicine, Taught by Dhanwantari, and Composed by His Disciple Suśruta, 2 vols. (Calcutta: Education Press and Baptist Mission Press), ark:/13960/t6841qw6x.
- Haas, E. (1876), "Über die Ursprünge der Indischen Medizin, mit besonderem Bezug auf Suṣruta," Zeitschrift der Deutschen Morgenländischen Gesellschaft, 30/4: 617–70, URL.
- Harimoto, Kengo (2010), "[Preliminary Edition of the Nepalese MSS of the Suśrutasaṃhitā, adhyāyas 1.1–3, 6.4]" (prepublished).
- —— (2011), "In Search of the Oldest Nepalese Manuscript," *Rivista degli Studi Orientali*, 84/1–4: 85–106, ISSN: 0392-4866, URL, accessed 08/09/2019.
- —— (2013), "Description of microfilm C 80/7," NGMCP, URL, accessed 27/02/2023.

- Harimoto, Kengo (2014), "Nepalese Manuscripts of the Suśrutasaṃhitā," *Journal of Indian and Buddhist Studies* (*Indogaku Bukkyogaku Kenkyu*), 62/3: 23–29 (1087-1093). DOI: 10.4259/ibk.62.3_1087, URL, accessed 08/09/2019.
- Hayashi, Takao (2017), "The Units of Time in Ancient and Medieval India," *History of Science in South Asia*, 5/1: 1–116. DOI: 10.18732/h2ht0h.
- Hemarāja Śarman (1938) (ed.), काश्यपसंहिता (वृद्धजीवकीयं तन्त्रं वा) महर्षिणा मारीच-कश्यपेनोपदिष्टा ... हेमराजशर्मणा लिखितेन विस्तृतेन उपोद्धातेन सहिता ... सत्यपाल भिषगा कृतया विद्योतिनी हिन्दीव्याख्यया ... समुल्लसिता (1st edn., Mumba: Nirṇayasāgara Press), ark:/13960/t3mw5gb9p.
- Hendley, T. Holbein (1895), A Medico-topographical Account of Jeypore, Based on the Experience of Twenty Years' Service As a Residency Surgeon and Thirteen As Superintendent of Dispensaries at Jeypore, Rajputana (Calcutta: Calcutta Central Press Company).
- Hessler, Franciscus (1844–55), Suśrutas Ayurvédas: id est Medicinae Systema a Venerabili D'hanvantare Demonstratum a Susruta Discipulo Compositum; Nunc Primum Ex Sanskrita in Latinum Sermonem Vertit, Introductionem, Annotationes Et Rerum Indice Franciscus Hessler (Erlangen: Ferdinandum Enke), ark:/13960/t17m45r97.
- Hoernle, A. F. Rudolf (1893–1912) (ed.), *The Bower Manuscript: Facsimile Leaves, Nagari Transcript, Romanised Transliteration and English Translation with Notes* (New Imperial Series, 22; Calcutta: Government of India and under the patronage of the Bengali Government, Archaeological Survey of India), ark:/13960/t05z1bg4q.
- —— (1897), सुश्रतसहिता = The Suçruta-Saṃhitā or the Hindū System of Medicine According to Suçruta Translated from the Original Sanskrit (Bibliotheca Indica, 911; Calcutta: Asiatic Society), ark:/13960/t8pd1kw9r, accessed 03/01/2018; No more published; Hoernle does not state which edition he is translating, but it includes the "Dhanvantari phrase".
- —— (1906a), "Studies in Ancient Indian Medicine I: The Commentaries on Suśruta," *Journal of the Royal Asiatic Society of Great Britain and Ireland*: 283–302, URL, accessed 26/06/2019.
- —— (1906b), "Studies in Ancient Indian Medicine II: On Some Obscure Anatomical Terms," *Journal of the Royal Asiatic Society of Great Britain and Ireland*, 4: 915–41, URL, accessed 25/06/2019.

- Hoernle, A. F. Rudolf (1907*a*), "Studies in Ancient Indian Medicine II: On Some Obscure Anatomical Terms (Continued from the the Journal, 1906, p. 941)," *Journal of the Royal Asiatic Society of Great Britain and Ireland*: 1–18, URL, accessed 25/06/2019.
- —— (1907*b*), Studies in the Medicine of Ancient India: Osteology or the Bones of the Human Body (Oxford: Clarendon Press), ark:/13960/t1pg9cq8b.
- Hofer, Theresia (2007), "Swami Laxmi Ram's Ayurvedic Pharmacy in Jaipur, India," *Wellcome History*, 34: 2–3, URL, accessed 16/03/2022.
- Holwell, J. Z. (1767), An Account of the Manner of Inoculating for the Small Pox in the East Indies With...Observations on The...Mode of Treating That Disease in Those Parts (London: T. Becket & P. A. de Hondt), ark:/13960/t3ws9h63c.
- Jack, David Morton (1884), "A Thesis on Cataract in India: Its Pathology and Treatment," Wellcome Library, London, MS 3007, URL, accessed 02/06/2021.
- Jamison, Stephanie W., and Brereton, Joel P. (2014), *The Rigveda* (South Asia Research; New York: Oxford University Press), ISBN: 9780199370184; With commentary at http://rigvedacommentary.alc.ucla.edu/.
- Jośī, Veṇīmādhavaśāstrī, and Jośī, Nārāyaṇa Harī (1968), आयुर्वेदीय महाकोशः अर्थात् आयुर्वेदीय शब्दकोशः संस्कृत-संस्कृत (Muṃbaī: Mahārāṣṭra Rājya Sāhityta āṇi Saṃskṛti Maṃḍaḷa), ark:/13960/t22c41g8t.
- Kangle, R. P. (1969), *The Kauṭilīya* Arthaśāstra (2nd edn., Delhi: Motilal Banarsidass), ISBN: 81-208-0042-7, ark:/13960/t3gz6qh1s, accessed 23/09/2021.
- Karttunen, Klaus (2015), *Yonas and Yavanas in Indian Literature* (Studia Orientalia, 116; Helsinki: Finnish Oriental Society), 454, ISBN: 978-951-9380-88-9, URL; Published electronically in 2016 as a back issue of *Studia Orientalia*.
- Keith, Arthur Berriedale (1908), review of A. F. Rudolf Hoernle (1907), "Studies in Ancient Indian Medicine II: On Some Obscure Anatomical Terms (Continued from the Hoe Journal, 1906, p. 941)," Journal of the Royal Asiatic Society of Great Britain and Ireland: 1–18, URL, accessed 25/06/2019, in Zeitschrift Der Deutschen Morgenländischen Gesellschaft, 1/62: 134–9, URL, accessed 17/04/2021.

- Klebanov, Andrey (2010), "The *Nepalese Version of the Suśrutasaṃhitā and Its Interrelation with Buddhism and the Buddhists," MA thesis (Hamburg: Hamburg University, Sept.), URL, accessed 08/09/2019.
- —— (2012), "Description of microfilm B 29/19," NGMCP, URL, accessed 27/02/2023.
- —— (2021*a*), "On the Textual History of the Suśrutasaṃhitā (1): A Study of Three Nepalese Manuscripts," *eJIM*: Electronic Journal of Indian Medicine, 12/1: 1–64. DOI: 10.21827/ejim.12.1.37385.
- ——(2021*b*), "On the Textual History of the Suśrutasaṃhitā, (2): An Anonymous Commentary and its Identified Citations," in Toke Lindegaard Knudsen, Jacob Schmidt-Madsen, and Sara Speyer (eds.), *Body and Cosmos: Studies in Early Indian Medical and Astral Sciences in Honor of Kenneth G. Zysk* (Leiden, Boston: Brill), 110–39. DOI: 10.1163/9789004438224_008.
- Kuist, James M. (1982), The Nichols File of The Gentleman's Magazine (Madison: University of Wisconsin Press), ISBN: 0-299-08480-9, ark:/13960/t53g2ct2z.
- Kulikov, Leonid (2006), "The Sanskrit -yet- Optative: A Formation Not Yet Recorded in Sanskrit Grammars," Wiener Zeitschrift für die Kunde Südasiens, 50: 27–68. doi: 10.1553/wzksls27, url.
- Lariviere, Richard W. (2003), *The Nāradasmṛti. Critically Edited with an Introduction, annotated Translation, and Appendices* (2nd edn., Delhi: Motilal Banarsidass), ISBN: 8120818040; First edition: Philadelphia, 1989.
- Law, Bimala Churn (1984), *Historical Geography of Ancient India* (New Delhi: Orient Books Reprint), ark:/13960/t3d01t737; Reprint of 1954 Paris edition.
- Leffler, Christopher T., et al. (2020), "The History of Cataract Surgery: From Couching to Phacoemulsification," *Annals of Translational Medicine*, 8/22: 1551–97, ISSN: 2305-5847. DOI: 10.21037/atm-2019-rcs-04, URL, accessed 02/11/2020.
- Li, Charles (2017), "Critical Diplomatic Editing: Applying Text-critical Principles As Algorithms," in Peter Boot et al. (eds.), Advances in Digital Scholarly Editing. Papers Presented at the Dixit Conferences in the Hague, Cologne, and Antwerp (Leiden: Sidestone Press), 305–10, ISBN: 978-90-8890-485-1, URL, accessed 10/11/2020.

- Li, Charles (2017–), "Saktumiva," URL, accessed 21/01/2023.
- —— (2018), "Limits of the Real: A Hypertext Critical Edition of Bhartṛhari's Dravyasamuddeśa, with the Commentary of Helārāja," en, PhD thesis (Cambridge: University of Cambridge). DOI: 10.17863/CAM.31454.
- ——(2022a), "Helayo: Reconstructing Sanskrit Texts from Manuscript Witnesses," *Journal of Open Source Software*, 7/71: 4022. DOI: 10.21105/joss.04022.
- —— (2022b), "Reconstructing a Sanskrit Text" (19 Nov.), URL, accessed 20/01/2023.
- Lienhard, Siegfried (1978), "On the Meaning and Use of the Word Indragopa," *Indologica taurinensia*, 6: 177–88, URL, accessed 06/02/2021; The indragopa is a 'red velvet mite'.
- Longmate, Barak (1794), "A Curious Chirurgical Operation," *The Gentleman's Magazine and Historical Chronicle*, 64.4 (Oct.): 883, 891, 892; I am grateful to the late John Symons of the Wellcome Library who identified the author 'B. L.' as the journalist Barak Longmate. See also Kuist 1982: 87.
- Maas, Philipp André (2013), "A Concise Historiography of Classical Yoga Philosophy: leslie," in Eli Franco (ed.), *Historiography and Periodization of Indian Philosophy* (Vienna: Sammlung de Nobili), 53–90, URL, accessed 27/05/2016.
- Mairs, Rachel (2013), "Greek Settler Communities in Central and South Asia, 323 BCE to 10 CE," in Ato Quayson (ed.), *A Companion To Diaspora And Transnationalism* (Oxford: John Wiley and Sons Ltd), 443–54, ISBN: 9781405188265.
- —— (2014), The Hellenistic Far East: Archæology, Language, and Identity in Greek Central Asia: Archæology, Language, and Identity in Greek Central Asia (Berkeley: University of California Press), 250, ISBN: 9780520292468. DOI: 10.1525/9780520959545.
- Majno, Guido (1975), *The Healing Hand. Man and Wound in the Ancient World* (Cambridge, MA: Harvard University Press), ark:/13960/t4hm7xf2c.

- Malamoud, Charles (1996), "Paths of the Knife: Carving up the Victim in Vedic Sacrifice," in *Cooking the World: Ritual and Thought in Ancient India. Translated from the French by David White* (Delhi, Bombay, etc.: Oxford University Press), 169–80.
- Mānasa-taraṅgiṇī (2019), "Kaiṭabha, Poison and Death: Meanderings through Tradition," mAnasa-taraMgiNI Blog (1 Sept.), URL, accessed 31/01/2023.
- Manucci, Niccolò (1907–08), *Storia Do Mogor or, Mogul India, 1653–1708 by Niccolao Manucci, Venetian; Translated with Introduction and Notes, by William Irvine* (The Indian Texts Series; London: J. Murray), URL, accessed 04/10/2021.
- Masai, François (1950), "Principes et conventions de l'édition diplomatique," *Scriptorium*, 4: 177–93. DOI: 10.3406/scrip.1950.2294.
- Mayrhofer, Manfred (1953–72), Kurzgefaßtes etymologisches Wörterbuch des Altindoarischen; a Concise Etymological Sanskrit Dictionary (Heidelberg: Carl Winter, Universitätsverlag).
- (1986–2001), Etymologisches Wörterbuch des Altindoarischen (Heidelberg: Carl Winter, Universitätsverlag), ISBN: 3-533-03826-2.
- McHugh, James (2021), An Unholy Brew: Alcohol in Indian History and Religions (New York: Oxford University Press), 416 pp., ISBN: 9780199375936.
- Meulenbeld, Gerrit Jan (1974b), *The Mādhavanidāna and Its Chief Commentary: Chapters* 1–10. *Introduction, Translation, and Notes* (Leiden: Brill), ISBN: 978-90-04-03892-9, ark:/13960/t25b8q97g.
- —— (1984), "The Surveying of Sanskrit Medical Literature," in id. (ed.), *Proceedings of the International Workshop on Priorities in the Study of Indian Medicine* (Groningen: Forsten), 37–56.
- —— (1989), "The Search for Clues to the Chronology of Sanskrit Medical Texts As Illustrated by the History of Bhaṅgā (cannabis Sativa Linn.)," Studien zur Indologie und Iranistik, 15: 59–70.
- —— (1992), "The Characteristics of a Doṣa," *Journal of the European Āyur-vedic Society*, 2/1: 1–5, ark:/13960/t8hf69z8j.

- Meulenbeld, Gerrit Jan (2008), *The Mādhavanidāna with "Madhukośa," the Commentary by Vijayarakṣita and Śrīkaṇṭhadatta (Ch. 1-10). Introduction, Translation, and Notes* (Delhi: Motilal Banarsidass).
- —— (2011), "The Relationships between Doṣas and Dūṣyas: A Study on the Meaning(s) of the Root Murch-/mūrch," eJournal of Indian Medicine, 4/2: 35–135, URL, accessed 13/10/2017.
- Miles, M. (1999), "Personal Communication," Mar.; Letter of 4 March.
- Moureau, Sébastien. (2015), "The Apparatus Criticus," in Alessandro Bausi et al. (eds.), Comparative Oriental Manuscript Studies: An Introduction (Hamburg: Tredition), 348–52, ISBN: 978-3-7323-1768-4, URL, accessed 04/07/2021.
- Mukhopādhyāya, Girindranāth (1913), The Surgical Instruments of the Hindus, with a Comparative Study of the Surgical Instruments of the Greek, Roman, Arab, and the Modern Eouropean (sic) Surgeons (Calcutta: Calcutta University), ark: 13960/t1zd2pq29, accessed 29/01/2018; Vol.2: ark:/13960/t9r25qd8m. Reprinted as a single volume, New Delhi, 1987.
- Narayana, Ala, and Thrigulla, Saketh Ram (2011), "Tangible Evidences of Surgical Practice in Ancient India," *Journal of Indian Medical Heritage*, 16: 1–18, URL, accessed 02/06/2021.
- NGMCP (2014), "Nepal-german Manuscript Cataloguing Project. Online Title List and Descriptive Catalogue," Universität Hamburg and Deutsche Forschungsgemeinschaft, URL.
- Oberlies, Thomas (2003), *A Grammar of Epic Sanskrit* (Indian Philology and South Asian Studies, 5; Berlin: De Gruyter), ISBN: 9783110144482. DOI: 10.1515/9783110899344.
- Olivelle, Patrick (2005), Manu's Code of Law: A Critical Edition and Translation of the Manava-dharmasastra, With the editorial assistance of Suman Olivelle (South Asia research; New York: Oxford University Press), ISBN: 0195171462.
- (2013), King, Governance, and Law in Ancient India: Kauṭilya's Arthaśāstra. a New Annotated Translation (New York: Oxford University Press), ISBN: 9780199891825. DOI: 10.1093/acprof: osobl/9780199891825.003.0001.

- Osbaldeston, Tess Anne, and Wood, R. P. A. (2000), Dioscorides. De Materia Medica. Being an Herbal with Many Other Medicinal Materials Written in Greek in the First Century of the Common Era. a New Indexed Version in Modern English [Introductory Notes by R. P. Wood] (Johannesburg: IBIDIS Press), ISBN: 0-620-23435-0, URL.
- Pandey, Anshuman (2012), "Proposal to Encode the Newar Script in ISO/IEC 10646," URL.
- Pass, Gregory (2003), Descriptive Cataloging of Ancient, Medieval, Renaissance, and Early Modern Manuscripts (Chicago: American Library Association), ISBN: 0-8389-8218-2, URL.
- PBS (2020), "Modern Day Blood-letting in North Africa," PBS (11 Dec.), URL; Filmed in Farchana, Chad, amongst Sudanese refugees from Darfur, for the series *Our Human Planet*.
- Pillay, V. V. (2013), *Modern Medical Toxicology* (New Delhi: Jaypee Brothers Pvt. Ltd), ISBN: 9789350259658.
- Pillay, Vijay V., and Sasidharan, Anu (2019), "Oleander and Datura Poisoning: An Update," *Indian Journal of Critical Care Medicine*, 23/Supplement 4: 5250–5. DOI: 10.5005/jp-journals-10071-23302.
- Preisendanz, Karin (2007), "The Initiation of the Medical Student in Early Classical Āyurveda: Caraka's Treatment in Context," in Birgit Kellner et al. (eds.), Pramāṇakīrtiḥ. Papers Dedicated to Ernst Steinkellner on the Occasion of His 70th Birthday. Part 2, ii, 2 vols. (Wiener Studien zur Tibetologie und Buddhismuskunde, 70.2; Wien: Arbeitskreis für Tibetische Und Buddhistische Studien Universität Wien), 629–68, ISBN: 9783902501097, URL.
- Price, Kenneth M. (2013), "Electronic Scholarly Editions," in Ray Siemens and Susan Schreibman (eds.), *A Companion to Digital Literary Studies* (Chichester, UK: John Wiley & Sons, Ltd), 434–50. DOI: 10 . 1002 / 9781405177504.ch24, URL, accessed 04/07/2021.
- Rādhākāntā Deva, Rājā (1876), হাৰ্কন্মুদ: = Shabda Kalpadrumah, Or, the Tree Bearing All the Words That May Be Wished For (Calcutta: Baradākānta Mitra & Co. at the New Bengal Press), ark:/13960/t9x10x61b.

- Rai, Saurav Kumar (2019), "Invoking 'Hindu' Ayurveda: Communalisation of the Late Colonial Ayurvedic Discourse," *The Indian Economic & Social History Review*, 56/4: 411–26. DOI: 10.1177/0019464619873820; Online first.
- Rama Rao, B., et al. (2005), Sanskrit Medical Manuscripts in India (New Delhi: Central Council for Research in Ayurveda & Siddha), ark:/13960/t88h7763b.
- Rama Sastri and Krishnamurthi Sastri, S. R. (1952) (eds.), पातञ्चलयोग-सूत्रभाष्यिववरणम्। (शङ्करभगवत्पादप्रणीतम्) = Pātājala[sic]-yogasūtra-bhāṣya Vivaraṇam of Śaṅkara-Bhagavatpāda. Critically Edited with Introduction (Madras Government Oriental Series, 94; Madras: Government Oriental Manuscripts Library), ark:/13960/t7jq3m14w, accessed 20/10/2017.
- Rây, Priyadaranjan, Gupta, Hirendra Nath, and Roy, Mira (1980), *Suśruta Saṃhita (a Scientific Synopsis*) (New Delhi: Indian National Science Academy), ark:/13960/t64511t6v, accessed 13/09/2019.
- Raychaudhuri, Hemachandra (1953), *Political History of Ancient India* (Calcutta: University of Calcutta), ark:/13960/s25hz0hz29p.
- Renou, Louis (1940), "Sur certaines anomolies de l'optatif Sanskrit," Bulletin de la Société de Linguistique de Paris, 41: 5–17, ark:/12148/bpt6k121049.
- Rhys Davids, Thomas William, and Stede, William (1921–25), *The Pali Text Society's Pali-English Dictionary* (London: The Pali Text Society), ark:/13960/t4nk3nc12.
- Rimal, Madhusudana, and Wujastyk, Dominik (2022), "MS Kathmandu NAK 1/1146," Pandit Project (18 May), URL.
- Roelli, Philipp (2020) (ed.), *Handbook of Stemmatology* (Berlin: De Gruyter). DOI: 10.1515/9783110684384.
- Roelli, Philipp, and Macé, Caroline (2015), "Parvum Lexicon Stemmatologicum. A Brief Lexicon of Stemmatology." DOI: 10.5167/uzh-121539.
- Roşu, Arion (1989), *Un demi-siècle de recherches āyurvédiques. Gustave Liétard et Palmyr Cordier: Travaux sur l'histoire de la médecine indienne* (Paris: Institut de Civilisation Indienne).

- Saha, Mridula (2015), The History of Indian Medicine Based on the Vedic Literature Satapatha Brahmana (Kolkata: The Asiatic Society), ISBN: 978-9381574294.
- Sarukkai, Sundar (2016), "Translation As Method: Implications for History of Science," in Bernard Lightman, Gordon McOuat, and Larry Stewart (eds.), *The Circulation of Knowledge Between Britain, India and China* (Leiden: BRILL), 309–29. DOI: 10.1163/9789004251410 014.
- Sastri, Hrishikesh, and Gui, Siva Chandra (1895–1917), *A Descriptive Catalogue of Sanskrit Manuscripts in the Library of Calcutta Sanskrit College* (Calcutta: Baptist Mission Press).
- Sastri, P. P. S. (1933), A Descriptive Catalogue of the Sanskrit Manuscripts in the Tanjore Maharaja Serfoji's Sarasvati Mahal Library Tanjore: Natya, Sangita, Kamasastra, Vaidya & Jyotisa, nos. 10650 11737 (Srirangam: Sri Vani Vilas Press), ark:/13960/t3nw8bc12.
- Śāstrī, Vardhamāna Pārśvanātha (1940) (ed.), उग्रादित्याचार्यकृत कल्याणकारक (राष्ट्रभाषानुवादसिंहत) = The Kalyāṇa-kārakam of Ugrādityacharya, Edited with Introduction, Translation, Notes, Indexes and Dictionary (Sakhārāma Nemacaṃda Graṃthamālā, 129; Solāpura: Seṭha Goviṃdajī Rāvajī Dośī), ark:/13960/t2q617g4d.
- Schwartzberg, Joseph E., Bajpai, Shiva G., et al. (1978) (eds.), *A Historical Atlas of South Asia* (Chicago: University of Chicago Press), url.
- Scott, H. (1817), "Some Remarks on the Arts of India, with Miscellaneous Observations on Various Subjects," *Journal of Science and the Arts*, 2: 67–72, ill. after 133, ark:/13960/t9870jt4g; Breton 1826: 358–363 cites Scott's description of cataract couching.
- Semeka-Pankratov, Elena (1979), "A Semiotic Approach to the Polysemy of the Symbol *nāga* in Indian Mythology," in Irene Portis Winner and Jean Umiker-Sebeok (eds.), *Semiotics of Culture* (Approaches to Semiotics, 53; The Hague, Paris, NY: Mouton), 237–90. DOI: 10.1515/9783110823134-009; The contents of this volume were published simultaneously in *Semiotica* (1/3) 1979.
- Sen, Sailendra Nath (1988), Ancient Indian History and Civilization (Delhi: New Age International), ark:/13960/t8gf8pz34.

- Sena, Gaṅgāprasād, et al. (1886–93) (eds.), सुश्रुतसंहिता...द्रह्मनाचार्य्य-कृत-निवन्थ-संग्रह, चक्रपाणिदत्त-कृत-भानुमती-टीका...वङ्गानुवाद...इंरेजि प्रतिशब्द (Calcutta: Maṇirāma Press); Edition "g" in HIML: IB, 311.
- Sharma, Har Dutt (1939), Descriptive Catalogue of the Government Collections of Manuscripts Deposited at the Bhandarkar Oriental Research Institute, Vol. XVI, Part I, Vaidyaka (Descriptive Catalogue of Manuscripts in the Government Manuscripts Library, XVI.I; Pune: Bhandarkar Oriental Research Institute), ark:/13960/t0ms6rc70, accessed 23/10/2019.
- Sharma, Priya Vrat (1972), *Indian Medicine in the Classical Age* (Varanasi: Chowkhamba Sanskrit Series Office).
- —— (1975), *Āyurved Kā Vaijñānik Itihās* (Jayakṛṣṇadāsa Āyurveda Granthamālā; Vārāṇasī: Caukhambā Orientalia).
- —— (1982), *Dalhaṇa and his Comments on Drugs* (Delhi: Munshiram Manoharlal).
- —— (1999–2001), Suśruta-Saṃhitā, with English Translation of Text and Dalhaṇa's Commentary Alongwith (sic) Critical Notes, 3 vols. (Haridas Ayurveda Series, 9; Varanasi: Chaukhambha Visvabharati).
- Shastri, R. Shama (1920) (ed.), बोधायनगृह्यसूत्रम् *The Bodhāyana Grihyasutra* (Mysore: University of Mysore), ark:/13960/t2t492622.
- Shiffman, Melvin A. (2013), "History of Otoplasty: Review of Literature," in id. (ed.), *Advanced Cosmetic Otoplasty: Art, Science, and New Clinical Techniques* (Berlin, Heidelberg: Springer), chap. 5, 43–64. DOI: 10.1007/978-3-642-35431-1_5.
- Siddiqi, Muhammad Zubayr (1959), Studies in Arabic and Persian Medical Literature, ark:/13960/s25bxqt84xm.
- Singhal, G. D., et al. (1972–82), *Diagnostic* [and Other] Considerations in Ancient Indian Surgery (Varanasi: Singhal Publications); A translation of the Suśrutasaṃhitā in 10v.
- Sircar, Dinesh Chandra (1971), Studies in the Geography of Ancient and Medieval India (2nd edn., Delhi: Motilal Banarsidass), ark:/13960/t72w2zd8w.
- —— (1987), "6. Rākshaskhāli (Sundarban) Plate; Śaka 1118," *Epigraphia Indica* (1953–54), 30: 42–3, ark:/13960/t80m25q3w.

- Sleeman, W. H. (1893), Rambles and Recollections of an Indian Official (London: Constable), ark:/13960/t22c4bx7w; v.2 at http://n2t.net/ark:/13960/t2s52bq7w.
- Smith, Brian K. (1994), Classifying the Universe: The Ancient Indian Varṇa System and the Origins of Caste (New York, Oxford: Oxford University Press), ISBN: 0-19-508498-5.
- Spencer, Walter George (1935–38), *Celsus: De Medicina. with an English Translation by W. G. Spencer*, 3 vols. (Loeb Classical Library, 292, 304, 336; Cambridge, MA; London: Harvard University Press; William Heinemann), URL, accessed 02/06/2021.
- Speziale, Fabrizio (2019), "Rasāyana and Rasaśāstra in the Persian Medical Culture of South Asia," *History of Science in South Asia*, 7: 1–41. DOI: 10.18732/hssa.v7i0.40.
- Spink, M. S., and Lewis, G. L. (1973) (eds.), *Albucasis on Surgery and Instruments: A Definitive Edition of the Arabic Text with English Translation and Commentary* (London: Wellcome Institute of the History of Medicine), ark:/13960/t95823n1k.
- Srikantha Murthy, K. R. (2000–02), *Illustrated Suśruta Saṃhitā: Text, English Translation, Notes, Appendices and Index* (Jaikrishnadas Ayurveda Series, 102; 1st edn., Varanasi: Chaukhambha Orientalia).
- Steingass, F. (1930), A Comprehensive Persian-English Dictionary Including the Arabic Words and Phrases to Be Met with in Persian Literature (London: Kegan Paul, Trench, Trubner), ark:/13960/s25bwz0337d; Reprint, Delhi: Oriental Reprint, 1973.
- Storey, C. A. (1971), *Persian Literature, a Bio-bibliographical Survey.* Vol. II.2: Medicine (London: Royal Asiatic Society of Great Britain and Ireland), ark:/13960/t9v18bf68.
- Strauss, Bettina (1934), "Das Giftbuch des Śānāq: eine Literaturgeschichtliche Untersuchung," Quellen und Studien zur Geschichte der Naturwissenschaften und der Medizin, 4/2: [89]–[152] followed by Arabic text, ark:/13960/s2hb5j66s95.
- Suvedī, K. S., and Tīvārī, N. (2000) (eds.), सौश्रुतिनघण्टुः: ग्रन्थादौ विस्तृतेन ग्रन्थवै-शिष्ट्यप्रकाशकेनोपोद्धातेन अवसाने च द्रव्याणामनेकभाषानामावली-पर्यायसङ्ग्रहाभ्यां समलङ्कृतः सुश्रुतसंहितायां प्रयुक्तानामौषधद्रव्याणां पर्याय-गुणकर्मवर्णात्मको ऽपूर्वग्रन्थः (Belajhuṇḍī, Dān: Mahendrasaṃskṛtaviśvavidyālayaḥ).

- Talwar, P. K., and Kacker, R. K. (1984), *Commercial Sea Fishes of India* (Calcutt: Zoological Survey of India), ark:/13960/t5s841v5m.
- Tavernier, Jean-Baptiste (1684), *Collections of Travels through Turky* (sic), *into Persia*, *and the East-Indies* (London: M. Pitt), ark:/13960/t9g45vn74.
- TEI Consortium (2010), TEI P5: Guidelines for Electronic Text Encoding and Interchange, ed. C. M. Sperberg-McQueen et al. (Oxford, Providence, Charlottesville, Nancy: TEI Consortium), URL.
- Thorburn, S. S. (1876), *Bannu; or Our Afghan Frontier* (London: Trübner & Co.), ark:/13960/t39z96g7m; Reprinted Lahore: Niaz Ahmad, 1978.
- UNESCO (2013), "International Memory of the World Register Susruta Samhita (Nepal)," UNESCO, URL, accessed 11/09/2019.
- Unicode Consortium (1991), "The Unicode Standard 15.0, Newa Range," url: https://unicode.org/charts/PDF/U11400.pdf.
- Unschuld, Paul Ulrich (1984), *Medicine in China: A History of Ideas* (Berkeley: University of California Press), ISBN: 0520050231.
- Valiathan, M. S. (2007), *The Legacy of Suśruta* (Hyderabad, Chennai, etc.: Orient Longman).
- Velankar, H. D (1925–30), Descriptive Catalogue of the Sanskṛta and Prākṛta Manuscripts in the Library of the Bombay Branch of the Royal Asiatic Society (Bombay: Royal Asiatic Society, Bombay), ark:/13960/t53g00h0n; Biswas #0115.
- Watt, George (1889–96), A Dictionary of the Economic Products of India (Calcutta: Dept. Revenue and Agriculture, Government of India), URL, accessed 28/04/2021.
- —— (1908), The Commercial Products of India, Being an Abridgement of "the Dictionary of the Economic Products of India" (London: John Murray), ark:/13960/t8cg7dm79.
- Whitney, William Dwight (1885), *The Roots, Verb-forms, and Primary De*rivatives of the Sanskrit Language. A Supplement to his Sanskrit Grammar (Leipzig: Breitkopf and Härtel), ark:/13960/t3qv3p906.
- Wilson, H. H. (1823), "On the Medical and Surgical Sciences of the Hindus," *The Oriental Magazine and Calcutta Review*, 1: 207–12, 349–56, URL.

- Wujastyk, Dagmar (2012), Well-mannered Medicine: Medical Ethics and Etiquette in Classical Ayurveda (New York: Oxford University Press).

 DOI: 10.1093/acprof:0so/9780199856268.001.0001.
- —— (2013*a*), "Perfect Medicine. Mercury in Sanskrit Medical Literature," *Asian Medicine: Tradition & Modernity*, 8/1 (Sept.): 15–40, ISSN: 1573-4218. DOI: 10.1163/15734218-12341278.
- —— (2019), "Iron Tonics: Tracing the Development from Classical to Iatrochemical Formulations in Ayurveda," *HIMALAYA: The Journal of the Association for Nepal and Himalayan Studies*, 39/1. DOI: 10.5281/zenodo.7746874.
- Wujastyk, Dominik (1993), "Indian Medicine," in W. F. Bynum and Roy Porter (eds.), *Companion Encyclopedia of the History of Medicine*, i (London: Routledge), chap. 33, 755–78, ISBN: 0-415-04771-4, URL.
- —— (2002), "Cannabis in Traditional Indian Herbal Medicine," in Ana Salema (ed.), Āyurveda at the Crossroads of Care and Cure. Proceedings of the Indo-European Seminar on Ayurveda held at Arrábida, Portugal, in November 2001 (Lisbon: Centro de História de Além-Mar, Universidade Nova de Lisboa), 45–73, ISBN: 972-98672-5-9, URL, accessed 27/05/2019.
- —— (2003*a*), "Black Plum Island," in *2nd International Conference on Indian Studies. Proceedings* (Kraków: Jagiellonian University, Institute of Oriental Philology and Księgarnia Akademicka), 637–49.
- —— (2003b), The Roots of Ayurveda: Selections from Sanskrit Medical Writings (Penguin Classics; 3rd edn., London, New York, etc.: Penguin Group), ISBN: 0-140-44824-1.
- —— (2004), "Agni and Soma: A Universal Classification," *Studia Asiatica: International Journal for Asian Studies*, IV–V, ed. Eugen Ciurtin: 347–70. DOI: 10.5281/zenodo.7742068.
- —— (2013*b*), "New Manuscript Evidence for the Textual and Cultural History of Early Classical Indian Medicine," in *Medical Texts and Manuscripts in Indian Cultural History*, ed. Dominik Wujastyk, Anthony Cerulli, and Karin Preisendanz (New Delhi: Manohar), 141–57, URL.
- Wujastyk, Dominik, et al. (2020), "Suśrutasaṃhitā," PanditProject (6 Oct.), URL, accessed 14/09/2022.

- Wujastyk, Dominik (2021a), "A New Translation of Carakasaṃhitā, Vimānasthāna, Chapter 1, Based on the Vienna Critical Edition," in Toke Lindegaard Knudsen, Jacob Schmidt-Madsen, and Sara Speyer (eds.), Body and Cosmos. Studies in Early Indian Medical and Astral Sciences in Honor of Kenneth G. Zysk (Leiden, Boston: Brill), chap. 6, 77–109. DOI: 10.1163/9789004438224 007.
- ——(2021*b*), "MS London BL H. T. Colebrooke 908," URL, accessed 03/07/2021.
- —— (2021–), "Sushrutaproject: Version Control for Suśruta Text TEI Transcriptions: Suśruta Project Manuscript Transcriptions," University of Alberta, URL, accessed 21/01/2023; archived at DOI: 10.5281/zenodo.6471655.
- Wujastyk, Dominik, et al. (2021–), "The Suśruta Project: The Textual and Cultural History of Medicine in South Asia Based on Newly-Discovered Manuscript Evidenc," ed. Dominik Wujastyk, Jason Birch, Andrey Klebanov, et al., URL, accessed 21/01/2023.
- Wujastyk, Dominik, Birch, Jason, Klebanov, Andrey, et al. (2021–) (eds.), "New Digital Edition of the Suśrutasaṃhitā: The Suśruta Project at Saktumiva," University of Alberta, url.
- Wujastyk, Dominik, Pollock, Sheldon, et al. (2008–), "SARIT: Search and Retrieval of Indic Texts," url, accessed 21/01/2023.
- Yagi, Toru (1994), "A Note on bhojya- and bhakṣya-," in Yasuke Ikari (ed.), *A Study of the Nīlamata. Aspects of Hinduism in Ancient Kashmir* (Kyoto: Kyoto Institute for Research in Humanities, Kyoto University).
- Yano, Michio (1986), "A Comparative Study of Sūtrasthānas: Caraka, Suśruta, and Vāgbhaṭa," in Teizo Ogawa (ed.), History of Traditional Medicine: Proceedings of the 1st and 2nd International Symposia on the Comparative History of Medicine—East and West (Osaka: Division of Medical History, the Taniguchi Foundation), 325–44.
- Zimmermann, Francis (1983), "Suśrutasamhita," review of G. D. Singhal et al. (1972–82), Diagnostic [and Other] Considerations in Ancient Indian Surgery (Varanasi: Singhal Publications); A translation of the Suśrutasaṃhitā in 10v. In Bulletin of the History of Medicine, 57/2: 291–3, ISSN: 00075140, eprint: 44441590, URL.

- Zimmermann, Francis (1999), *The Jungle and the Aroma of Meats* (2nd edn., Delhi: Motilal Banarsidass), ISBN: 8120816188.
- Zysk, Kenneth G. (1984), "An Annotated Bibliography of Translations into Western Languages of Principle Sanskrit Medical Treatises," *Clio Medica*, 19/3–4: 281–91.
- —— (1985), Religious Healing in the Veda: With Translations and Annotations of Medical Hymns from the Rgveda and the Atharvaveda and Renderings from the Corresponding Ritual Texts (Transactions of the American Philosophical Society; Philadelphia: American Philosophical Society), ISBN: 0871697572.
- —— (1986), "The Evolution of Anatomical Knowledge in Ancient India with Special Reference to Cross-cultural Influences," *Journal of the American Oriental Society*, 106: 687–705. DOI: 10.2307/603532.
- —— (2000), Asceticism and Healing in Ancient India: Medicine in the Buddhist Monastery (Indian Medical Tradition; 2nd edn., Delhi: Motilal Banarsidass); First published 1991. Reprint of 1998 edition.

Glossary

cow-praising	-jealousy: 16	chinna
- govandanā: 23	ātmaka	-segmented: 23
o o	-nature: 16	clusters
ācāra	ayana	- samplava: 17
- regimen: 16	- half-year: 18	collection
accumulation	āyatta	- varga: 18
- sañcaya: 18	- depends on: 16	comfort
adhiṣṭhāna	āyur	-sukha : 18
-located: 16	- life: 22	complexion
adhyāya	-life, longevity: 13	- varṇa: 16
- sections: 19	āyurveda	congested humours
āgantu	- the science of life:	- sannipāta: 19
external factors:	13	creepy-crawlies
19	3	- sarīsṛpa: 14, 17
āhāra	bala	., 1, 7
- diet: 16	-strength: 16	dainya
ahorātra	black	- misery: 16
-day and night: 18	- kṛṣṇā: 22	dart-mouth
alagarddā	blink of the eye	- śaṅkumukhī : 23
-sting-gush: 22	- nimeṣa: 18	day and night
ālepana	blood	- ahorātra: 18
-liniments: 23	-rudhira: 17	depends on
alleviation	bones	- āyatta: 16
- pratīkāra: 18	-asthi: 19	depression
along these lines	born from eggs	-viṣāda: 16
- evam: 18	- aṇḍaja: 17	desire
аṇḍаја	born in in a caul	- icchā: 16
-born from eggs:	- jarāyuja: 17	diet
17	born of sweat	- āhāra: 16
aṅga	-svedaja: 17	disease
- parts: 18	bṛṃhaṇa	- vyadhi: 18
anger	- nourishment: 16	doṣa
- krodha: 16	bulbs	-humours: 18
animals	- kanda: 17	ducts
- paśu: 17		-sirā: 19
ants	carman	duḥkha
- pipīlika: 17	- pelt: 17	-suffering: 16
āśoka	caturvarga	dveṣa
-grief: 16	- fourfold	-hatred: 16
āśrayin	grouping: 18	
-substrate: 16	catuṣtaya	earth products
asthi	- four factors: 18	- pārthiva: 17
-bones: 19	chedya	earthen products
аѕӣуӣ	-excision: 19	- pārthiva: 18

envy	- overexcitement:	-sandhi: 19
- <i>īrṣyā</i> : 16	16	juice extract
essence	hatred	- svarasa: 17
- sāra: 17	- dveṣa: 16	•
evam	herbs	kalā
-along these lines:	- oṣadhi: 17	-minutes: 18
18	human being	kālakṛta
excision	- puruṣa: 16, 18	- items created by
- chedya: 19	humours	time: 17f
external factors	-doṣa: 18	kāma
-āgantu: 19		- lust: 16
-	icchā	kanda
flavours	- desire: 16	- bulbs: 17
- rasa: 16	indragopa	kapilā
flesh	- red velvet mites:	- tawny: 23
- māṃsa: 19	17	karburā
flowering trees	indrāyudhā	- mottled: 22
- vṛkṣa: 17	- rainbow: 23	karman
flowers	inherent factors	- therapies: 19
- puṣpa: 17	- svabhāva: 19	kāṣṭhā
fortnight	inherent	- trice: 18
- pakṣa: 18	- svābhāvika: 16	knowledge
four factors	intended	- veda: 13
- catuștaya: 18	- vyākhyāta: 19	kriyā
fourfold grouping	irregularities	- procedures: 15f,
- caturvarga: 18	-vaiṣamya: 16	19
frogs	irritation	- treatment: 18
- maṇḍūka: 17	- prakopa: 18	kriyākāla
fruit trees	īrṣyā	- the time for
-vanaspati: 17	- envy: 16	therapies: 18
fruits	items created by time - kālakṛta: 17f	kṛmi Worms: 17
- phala: 1 7	- Kuiukļiu. 1/1	- worms: 17 krodha
	jala	- anger: 16
govandanā	- water: 22	kṛṣṇā
- cow-praising: 23	jalaukas	- black: 22
great antidote	- water-dwellers:	kṣīra
- mahāgada: 23	22	- sap: 17
greed	јапдата	kunta
- lobha: 16	- moving: 17f	- small insects: 17
grief	jarāyuja	oman moceto. 17
- āśoka: 16	-born in in a caul:	leaves
	17	- patra: 17
half-year	jealousy	lekhana
- ayana: 18	- asūyā: 16	-scarification: 16
harṣa	joints	life
	•	

-āyur: 22	- three-quarters of	- earth products: 17
life, longevity	an hour: 18	- earthen products:
-āyur: 13	mūla	18
liniments	-root: 16	particulars
-ālepana: 23	-roots: 17	- vikalpa: 18
lobha	mūṣikā	parts
-greed: 16	- mouse: 23	- aṅga: 18
located	mūṣika	paśu
- adhiṣṭhāna: 16	- rodents: 14	- animals: 17
lotus-mouth	•	patra
- puṇḍarīkamukhī:	nature	- leaves: 17
23	-ātmaka: 16	pelt
lust	nimeṣa	- carman: 17
- kāma: 16	-blink of the eye:	phala
lūtā	18	- fruits: 17
-spiders: 14	niryāsa	physical
-1	- resin: 17	- śārīravad: 18
mahāgada	nivāta	piṅgalā
- great antidote: 23	- no wind: 17	-ruddy: 23
malice	no wind	pipīlika
- mātsarya: 16	- nivāta: 17	- ants: 17
māṃsa	nourishment	practical purposes
- flesh: 19	- bṛṃhaṇa: 16	- prayojanavat: 18
mānasa		prakopa
- mental: 16	oceanic	- irritation: 18
maṇḍūka	- sāmudrikā: 23	prakṛti
- frogs: 17	oil	- temperament: 16
māsa	- sneha: 17	pratīkāra [*]
-month: 18	ojas	- alleviation: 18
mātsarya _	- vital energy: 16	prayojanavat
- malice: 16	oṣadhi	- practical
mental	- herbs: 17	purposes: 18
- mānasa: 16	- remedies: 18	procedures
minutes	oṣadhī-	- kriyā: 15f, 19
- kalā: 18	- remedies: 16	puṇḍarīkamukhī
misery	overexcitement	- lotus-mouth: 23
-dainya: 16	-harṣa: 16	purification
month		- saṃśodhana: 16
- māsa: 18	pacification	puruṣa
mottled	- saṃśamana: 16	- human being: 16,
-karburā: 22	- upaśama: 18	18
mouse	pain and injury	риѕра
- mūṣikā : 23	- vedanābhighāta: 13	- flowers: 17
moving	pakṣa	. 1
- jaṅgama: 17f	- fortnight: 18	rainbow
muhūrta	pārthiva	- indrāyudhā: 23

rainy seasons	- kṣīra: 17	- alagarddā: 22
- varṣā: 17	sāra	strength
rasa	- essence: 17	- bala: 16
- flavours: 16	śārīravad	substrate
red velvet mites	-physical: 18	-āśrayin: 16
- indragopa: 17	sarīsṛpa	suffering
regimen	- creepy-crawlies:	- duhkha: 16
- ācāra: 16	14, 17	sukha
remedies	sāvarikā	- comfort: 18
- oṣadhi: 18	- sāvarikā: 23	svabhāva
- oṣadhī-: 16	sāvarikā	- inherent factors:
resin		19
- niryāsa: 17	- sāvarikā : 23	svābhāvika
rodents	scarification	- inherent: 16
	-lekhana: 16	
- mūṣika: 14	season	svarasa
root - mūla: 16	- ṛtu: 18	- juice extract: 17
	sections	svedaja
roots	- adhyāya: 19	-born of sweat: 17
- mūla: 17	segmented	L
ŗtu	- chinna: 23	tawny
- season: 18	shoots	- kapilā: 23
ruddy	- udbhid: 17	temperament
-piṅgalā : 23	shrubs	- prakṛti: 16
rudhira	- vīrudh: 17	the science of life
-blood: 17	sinews	-āyurveda: 13
1	-snāyu: 19	the time for therapies
samplava	sirā	- kriyākāla: 18
- clusters: 17	- ducts: 19	therapies
saṃśamana	skin	-karman: 19
- pacification: 16		three-quarters of an
saṃśodhana	- tvak: 17f	hour
-purification: 16	small insects	- muhūrta: 18
sāmudrikā	- kunta: 17	treatment
- oceanic: 23	snāyu	- <i>kriyā</i> : 18
saṃvatsara	- sinews: 19	trice
- year: 18	sneha	- kāṣṭhā: 18
sañcaya	- oil: 17	tvak
- accumulation: 18	spiders	-skin: 17f
sandhi	- lūtā: 14	
-joints: 19	śreyas	udbhid
śankumukhī	- welfare: 13	-shoots: 17
- dart-mouth: 23	stationary	upaśama
sannipāta	- sthāvara: 16, 18	- pacification: 18
-congested	sthāvara	pacification 10
humours: 19	- stationary: 16, 18	vaiṣamya
sap	sting-gush	- irregularities: 16
- ·· L ·		

vanaspati	vīrudh	- jala: 22
- fruit trees: 17	-shrubs: 17	water-dwellers
varga	viṣāda	- jalaukas: 22
- collection: 18	- depression: 16	welfare
varna	vital energy	-śreyas: 13
- complexion: 16	- ojas: 16	wild animals
varsā	vṛkṣa	- vyāla: 17
- rainy seasons: 17	- flowering trees: 17	worms
veda	vyadhi - disease: 18	- kṛmi: 17
-knowledge: 13	vyākhyāta	year
vedanābhighāta	-intended: 19	-saṃvatsara: 18
- pain and injury:	vyāla	yuga
13	- wild animals: 17	- yuga: 18
vikalpa	,	yuga
- particulars: 18	water	- yuga: 18

Materia Medica Reference Works

ADPS	Sivarajan, V. V., and Balachandran, Indira (1994), <i>Ayurvedic Drugs and Their Plant Sources</i> (New Delhi, Bombay, Calcutta: Oxford & IBH Publishing).
AVS	Warrier, P. K., Nambiar, V. P. K., and Ramankutty, C. (1994–96) (eds.), <i>Indian Medicinal Plants: A Compendium of 500 Species. Vaidyaratnam P. S. Varier's Arya Vaidya Sala, Kottakal</i> (Madras: Orient Longman).

BIA Prater, S. H. (1993), *The Book of Indian Animals* (3rd edn., Bombay, Delhi, etc.: Oxford University Press); 4th impression of 3rd corrected 1980 edition.

Chopra, R. N., Nayar, S. L., and Chopra, I. C. (1956), *Glossary of Indian Medicinal Plants* (3rd reprint, 1992, New Delhi: Council of Scientific and Industrial Research); vol. 2: R. N. Chopra, I. C. Chopra, and Varma (Chopra_{sup}).

Chopra IDG Chopra, R. N., Chopra, I. C., Handa, K. L., et al. (1958), *Chopra's Indigenous Drugs of India* (2nd edn., Calcutta: Dhur & Sons), ark:/13960/t9673t140.

Chopra, R. N., Chopra, I. C., and Varma, B. S. (1969), Supplement to Glossary of Indian Medicinal Plants (Reprint 1986, New Delhi: National Institute of Science Communication), ISBN: 8185038872.

CIPP Pillay, V. V. (2010), "Common Indian Poisonous Plants," in D. A. Warrell, T. M. Cox, and J. D. Firth (eds.), Oxford Text-book of Medicine (5th edn., Oxford University Press), 1371–5.

DOI: 10.1093/med/9780199204854.003.090302.

Dutt, Uday Chand (1922), The Materia Medica of the Hindus...with a Glossary of Indian Plants by George King. Revised Edition...by Binod Lall Sen and Ashutosh Sen and Pulin Krishna Sen (Krishnadas Sanskrit Studies; 3rd edn., Calcutta: Madan Gopal Dass for the Adi-Ayurveda Machine Press), ark:/13960/t59c7tg9z; Reprinted Varanasi: Chowkhamba Saraswatibhavan, 1980.

Dymock, William, Warden, C. J. H., and Hooper, David (1890), *Pharmacographia Indica: A History of the Principal Drugs of Vegetable Origin Met with in British India* (London, Bombay, Calcutta: Kegan Paul), URL, accessed 16/03/2023.

GJM1 Meulenbeld, Gerrit Jan (1974*a*), "Sanskrit Names of Plants and their Botanical Equivalents," in id., *The Mādhavanidāna and Its Chief Commentary: Chapters 1–10. Introduction, Translation, and Notes* (Leiden: Brill), chap. Appendix Four, 520–611, ark:/13960/t25b8q97g.

GJM2 Meulenbeld, Gerrit Jan (1988), "G. J. Meulenbeld's Additions to his "Sanskrit Names of Plants and their Botanical Equivalents"," in Rahul Peter Das, Das Wissen von der Lebensspanne der Bäume: Surapālas Vṛkṣāyurveda (Stuttgart: Franz Steiner Verlag), chap. Appendix 1, 425–65, ISBN: 9783515046633; Supplement to GJM1.

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

Issar, T. P. (1994), *Blossoms of Bangalore* (Bangalore: T. P. Issar).

IW Israel, Samuel, et al. (1988), *Indian Wildlife: Sri Lanka Nepal* (Insight Guides; Singapore etc.: APA Publications), ISBN: 9780245545238.

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.

Potter Wren, R. C. (1956), *Potter's New Cyclopaedia of Botanical Drugs and Preparations*, ed. R. W. Wren (7th edn., Rustington, Sussex: Health Science Press), ark:/13960/t14n65c9g.

Potter_{rev} Wren, R. C., Williamson, Elizabeth M., and Evans, Fred J. (1994), *Potter's New Cyclopaedia of Botanical Drugs and Preparations* (Saffron Walden: C. W. Daniel Company Ltd.); Reprint of revised 1988 edition.

Reptiles Daniel, J. C. (1983), *The Book of Indian Reptiles* (Bombay: Oxford University Press).

Trees Bole, P. V., and Vaghani, Yogini (1986), Field Guide to the Common Trees of India (Bombay, Delhi, Oxford, etc.: World Wildlife Fund – India and Oxford University Press), ISBN: 0-19-561595-6; 4th reprint.

Glossary and Index of Medical Substances

amaranth (*taṇḍulīyaka*) Amaranthus hypochondriacus, L. See King 321, NK: v. 1, #144, Potter_{rev}: 15. Cf.

AVS: v. 1, 121, 32

axlewood (*dhava*) Anogeissus latifolia (Roxb. ex DC.) Wall. ex Guill & Perr.

```
See AVS: v. 1, 163 f, Chopra: 20, 51
bamboo leaves (venupatrikā) Bambusa
   bambos, Druce. See NK: v. 1, #307, 32
beautyberry (priyangu) \leftarrow śyāmā.
   Callicarpa macrophylla, Vahl. See
   AVS: v. 1, 334, NK: v. 1, #420. Some say
   also Setaria italica Beauv.
   GVDB: 263-264. See also GVDB: 413,
   48, 52
beautyberry (śyāmā) Callicarpa
   macrophylla, Vahl. See AVS: v. 1, 334,
   NK: v. 1, #420, 30, 32
beggarweed (amśumatī) Desmodium
   gangeticum (L.) DC
   (Dymock: v. 1, 428, GJM1: 602, NK: v. 1,
   #1192; ADPS: 382, 414 and
   AVS: v. 2, 319, 4.366 are confusing), 48
beggarweed (vid\bar{a}rigandh\bar{a}) \rightarrow \dot{s}\bar{a}laparn\bar{\imath}.
   Desmodium gangeticum (L.) DC. See
   Dymock: v. 1, 428, GJM1: 602, cf.
   NK: v. 1, #1192; ADPS: 382, 414 and
   AVS: v. 2, 319, 4.366 are confusing, 31
black creeper (p\bar{a}lind\bar{\iota}) Ichnocarpus
   frutescens, (L.) R.Br. or Cryptolepis
   buchanani, Roemer & Schultes. See
   AVS: v. 3, 141, 3.145, 3.203, NK: v. 1,
   #1283, 1210, ADPS: 434, 32, 35, 47, 48
blackboard tree (saptachada) Alstonia
   scholaris R. Br. GVDB: 420, 31
blackbuck (harina) Antilope cervicapra, L.
   See BIA: 270 IW: 95, 165, et passim, 35
blue water-lily (utpala) Nymphaea
   stellata, Willd. See GJM1: 528, IGP 790;
   Dutt: 110, NK: v. 1, #1726, 25, 30, 47, 48
cardamom (elā) Elettaria cardamomum,
   Maton. See AVS: v. 2, 360, NK: v. 1,
   #924, Potter<sub>rev</sub>: 66, 48, 52
cassia cinnamon (patra) Cinnamomum
   tamala, (Buch.-Ham.) Nees. See
   AVS: v. 2, 84, NK: v. 1, #589, 32, 48
castor oil tree (gandharvahasta) \rightarrow eranda.
   GVDB: 135, K&B: v. 3, 2277, 28
castor-oil (eranda) Ricinus communis, L.
   See NK: v. 1, #2145, Chopra: 214, 33
certain minerals (tārāvitāra) Unknown. It
```

```
is not even certain that these are
  minerals. The variant reading in the
  vulgate, tāraḥ sutāraḥ was glossed by
  Dalhana on 5.3.14 (Su 1938: 568) as
  follows tāro rūpyam, sutārah pāradah,
  "tāra means silver; sutāra means
  mercury.", 52
chebulic myrobalan (harītakī) Terminalia
  chebula Retz. GVDB: 466, 31
cherry (elavālu) Prunus cerasus, L.?. See
  BVDB 58, NK: v. 1, #2037, GVDB: 58, 48
chital deer (prṣata) Axis axis, Erxleben.
  See BIA: 292, IW: 93, 35
cobra's saffron (n\bar{a}gapuspa) \rightarrow n\bar{a}gakeśara.
  Mesua ferrea, L. See NK: v. 1, #1595,
  GVDB: 220, 48
corky coral tree (pāribhadra) Erythrina
  suberosa Roxb. See GVDB 245, 51
costus (kustha) Saussurea costus, Clarke.
  See NK: v. 1, #2239, 32, 48, 52
country mallow (atibalā) Abutilon
  indicum, (L.) Sweet, but may be other
  kinds of mallow, e.g., Sida rhombifolia,
  L.. See NK: v. 1, #11, IGP: 1080, NK: v. 1,
  #2300, ADPS: 71, 77, 31
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), 31, 37, 47, 48, 51
crape jasmine (nata) \rightarrow crape jasmine
  GVDB: 215, 107, 108
crape jasmine (tagara) Tabernaemontana
  divaricata (L.) R.Br. ex Roem. &
  Schultes. See GJM1: 557, AVS: v. 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: v. 5, 334, 32,
   48, 107, 108
crimson trumpet-flower tree (pātalā)
   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, 51
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, 28
decanted liquor (surāmaṇḍa)
   K&B: v. 2, 502, NK: v. 2, appendix VI,
deodar (bhadradāru) Cedrus deodara,
   (Roxb.ex D.Don) G. Don. See AVS 41,
   NK: v. 1, #516, 48
dried flesh (vallūra) MW: 929, 25
elixir salve (ras\bar{a}\tilde{n}jana) \rightarrow a\tilde{n}jana. See
   Indian barberry, 33
embelia (vidanga) Embelia ribes, Burm. f.
   See ADPS: 507, AVS: v. 2, 368, NK: v. 1,
   #929, Potter<sub>rev</sub>: 113, 48
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{i},
   kāñjikā, sauvīra. GVDB: 458, NK: v. 2,
   appendix VI, #18, 30
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

```
fragrant lotus (saugandhika) A type of
   kumuda or utpala (GVDB: 457), 25
garjan oil tree (aśvakarna) Dipterocarpus
   turbinatus Gaertn. f. See GVDB: 28,
   Chopra: 100, 51
giant potato (k \bar{s} \bar{i} r a v i d \bar{a} r \bar{i}) possibly \rightarrow
   kṣīraśukla. Ipmoea mauritiana, Jacq.
   See ADPS: 510, AVS: v. 3, 222, AVS: v. 3,
   1717 ff, 109–111
ginger (mahauṣadha) Zingiber officinale,
   Roscoe. See ADPS: 50, NK: v. 1, #2658,
   IGP: 1232, 35
gold (hema) gold, 48
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", 52
golden shower tree (rājadruma) rājadruma
   = āragvadha. Cassia fistula L. See
   GVDB 37, 51
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, 31
heart-leaf sida (balā) Sida cordifolia, Linn.
   See ADPS: 71, NK: v. 1, #2297, 31, 48
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 crape jasmine
   (GVDB: 354), 52
```

```
Aconitum heterophyllum Wall.
   GVDB: 12, NK: v. 1, #39. Also "atis
   roots", 33, 35, 52
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, 110
horned pondweed (śevāla) also śaivāla,
   śevāra. Zannichellia palustris L. The
   uncertainties of this identification are
   discussed by Singh and Chunekar
   (GVDB: 409). Identified as
   Ceratophyllum demersum Linn.
   ("hornwortl") by AVS: v. 2, 56-57, 25
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, 31
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, 33, 34, 108
Indian barberry (dāruharidrā) Berberis
   aristata, DC. See Dymock: v. 1, 65,
   NK: v. 1, #685, GJM1: 562, IGP 141,
   47, 48
Indian barberry (k\bar{a}l\bar{\imath}yaka) \rightarrow d\bar{a}ruharidr\bar{a},
   añjana. Berberis aristata, DC. See
   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, 31, 110

Himalayan monkshood (ativisā)

```
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, 31
Indian madder (mañjisthā) Rubia
   cordifolia, L. See IGP, Chopra: 215,
   GVDB: 289, 28, 48
Indian mottled eel (varmimatsya) Almost
   certainly the mottled eel. MW: 962c
   noted that the varmi fish "is commonly
   called vāmi." The "vam fish," or "□□□
   □□□ (bān mach)" 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,
   48, 108
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,
   L. See NK: v. 1, #1364, 32
jequirity (guñjā) Abrus precatorius, L. See
   AVS: v. 1, 10, NK: v. 1, #6, Potter<sub>rev</sub>: 168,
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, 52
liquorice (?) (klītaka) Glycyrrhiza glabra,
```

```
L.? GVDB: 123–124 discuss the many difficulties in identifying this plant, 37 liquorice (madhuka) see yaṣṭīmadhuka, 31, 35, 46, 48 liquorice (yaṣṭīmadhuka) Glycyrrhiza glabra, L. AVS: v. 3, 84, NK: v. 1, #1136,
```

GVDB: 329 f., 33

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, 48

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, 48

luffa (*koṣītakī*) = *kośātakī*. Luffa cylindrica, (L.) M. J. Roem. or L. acutangula, (L.) Roxb. ADPS: 252–253, NK: v. 1, #1514 etc. GVDB: 121, 31, 47, 110

luffa gourd (kośavatī) = koṣītakī, luffa, 47 mango (āmra) 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), 37

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, 31, 111
```

monitor lizard (*godhā*) Varanus bengalensis, Schneider. See Reptiles: 58, 31, 35

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

myrobalan ($abhay\bar{a}$) Terminalia chebula, Retz. See ADPS: 172, NK: v. 1, #2451, Potter $_{rev}$: 214, 47, 52

natron (*suvarcikā*) Sodium carbonate. NK: v. 2, #45. Dalhaṇa identifies *suvarcikā* with svarjikṣāra 4.8.50 (Su 1938: 441), 48

neem tree (*nimba*) Azadirachta indica A. Juss. GVDB: 226, 28

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,

nutgrass (*mustā*) Cyperus rotundus, L. See ADPS: 316, AVS: v. 2, 296, NK: v. 1, #782, 110

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
the name suggests Helianthus annus
Linn., but this plant is native to the
Americas, 47, 109

peas (hareṇu) hareṇu = satīna. Pisum sativum, L. 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, 47, 48, 52

```
peepul tree (aśvattha) Ficus religiosa, L.
                                               red chalk (gairika) gairika, 48
   See ADPS: 63, 55
                                               red gourd (bimbī) Coccinia indica, W. &
periploca of the woods (meṣaśṛṅga)
                                                  A. See PVS 1994.4.715; NK: v. 1, #534, 31
   Gymnema sylvestre (Retz.) R. Br. See
                                               rosha grass (dhyāmaka) Cymbopogon
   AVS: v. 3, 107, NK: v. 1, #1173, 34
                                                  martinii (Roxb.) Wats. See
                                                  AVS: v. 2, 285, NK: v. 1, #177, 48
plants like asthma plant and Gulf
                                               sacred lotus (padma) Nelumbo nucifera,
   sandmat (kṣīrinī) various milky plants,
   perhaps including Euphorbia hirta
                                                  Gaertn. See NK: v. 1, #1698, 25, 32
   Linn. (asthma plant) and E.
                                               sage-leaved alangium (ankolla) Alangium
   microphylla Heyne (Gulf sandmat)
                                                  salvifolium (Linn. f.) Wang.
   (GVDB: 127), 109
                                                  GVDB: 5-6, 31
pointed gourd (patola) Trichosanthes
                                               sandalwood (candana) Santalum album,
   dioica, Roxb. GVDB: 232-233, 47
                                                  L. See ADPS: 111, NK: v. 1, #2217, 48
poison berry (brhatī) Solanum violaceum,
                                               sappanwood (pattānga) Also pattanga.
   Ortega. See ADPS: 100, NK: v. 1, #2329,
                                                  Caesalpinia sappan, L. AVS: v. 1, 323,
                                                  K&B: v. 2, 847 f, GVDB: 234, 33
   AVS: v. 5, 151, 47, 48
pondweed (paripelavā) Normally a neuter
                                               scarlet mallow (bandhujīva) Pentapetes
                                                  phoenicea, L. NK: #1836, GVDB: 268, 33
   noun. Singh and Chunekar
   (GVDB: 238, 264–265, 409) argued that
                                               scented pavonia (bālaka) Pavonia odorata,
                                                  Willd. See ADPS: 498, NK: v. 1, #1822,
   plava and śaivāla are the same thing, and
   may be either Zannichellia palustris, L.,
                                               scutch grass (dūrvā) Cynodon dactylon
   or Potamogeton pectinatus, L, 48
pondweed (śaivāla) Zannichellia palustris
                                                  (Linn.) Pers. (GVDB: 205), 111
   L. Sometimes identified with scutch
                                               selu plum (śelu) Cordia myxa, L. non
   grass (dūrvā). GVDB: 409, 109
                                                  Forssk. See GJM1: 529 (2), IGP: 291b, cf.
prickly chaff-flower (apāmārga)
                                                  AVS: v. 3, 1677 f; cf. AVS: v. 2, 180 (C.
                                                  dichotoma, Forst.f.), NK: v. 1, #672 (C.
   Achyranthes aspera, L. See GJM1: 524 f,
   AVS: v. 1, 39, ADPS: 44 f, AVS: v. 3,
                                                  latifolia, Roxb.), 47
   2066 f, Dymock: v. 3, 135, 28, 31
                                               sesame oil (taila) Sesamum indicum L.
purging nut (mūṣikā) Jatropha curcas, L.
                                                  GVDB: 183, 32
   See AVS: v. 3, 261, NK: v. 1, #1374, 34
                                               siris (śirīsa) Albizia lebbeck, Benth. See
                                                  AVS: v. 1, 81, NK: v. 1, #91, 47
purple calotropis (arka) Calotropis
   gigantea, (L.) R. Br. See ADPS: 52,
                                               siris seeds (śirīṣamāṣaka) Albizia lebbeck,
                                                  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, 31
                                                  Lagerstroemia parviflora Roxb. See
purple roscoea (kṣīrakākolī) GVDB: 89
                                                  GVDB: 432, 51
   notes that many physicians use Roscoea
   procera Wall. in this context. But the
                                               spikenard (māṃsī) Nardostachys
                                                  grandiflora, DC. See NK: v. 1, #1691, 48
   identification is uncertain. Possibly
   connected to milk-white or giant
                                               spikenard (nalada) \rightarrow māmsī.
                                                  Nardostachys grandiflora, DC. See
   potato., 109, 110
rajmahal hemp (morata) \rightarrow m\bar{u}rv\bar{\iota},
                                                  NK: v. 1, #1691, 29
                                               sugar (sitā) Dalhaṇa makes this equation
   Marsdenia tenacissima (Roxb.) Wight
   et Arn. Good discussion at
                                                  at 1.37.25 (Su 1938: 162), 48
   GVDB: 314-316, 324, 47
                                               sunflower (s\bar{u}ryavall\bar{\iota}) \rightarrow \bar{a}dityavall\bar{\iota},
```

```
sūryamukhī, Helianthus annūs Linn.
  GVDB: 35, 443, 47
sweet plants (madhuravarga) The sweet
  plants are enumerated at
  Suśrutasamhitā 1.42.11. See also
  GVDB: 127, 31
sweet-scented oleander (aśvamāraka)
  Nerium oleander, L. See ADPS: 223,
  NK: v. 1, #1709, 37
Tellicherry bark (kutaja) Holarrhena
  pubescens Wall. ex G.Don, with
   Wrightia tinctoria and W. arborea
  considered GVDB: 101-102,
   ADPS: 267–270, 108
thorn apple (karambha) Datura metel, L.
  See AVS: v. 2, 305 (cf.
   Abhidhānamañjarī), NK: v. 1, #796 ff.
   Potter<sub>rev</sub>: 292 f, ADPS: 132, 38
three heating spices (tryūṣaṇa) śunthī
   (Dried ginger) Zingiber officinale,
   Roscoe. ADPS: 50, NK: v. 1, #2658,
   AVS: v. 5, 435, IGP 1232, pippalī (long
   pepper) Piper longum, L.ADPS: 374,
  NK: v. 1, #1928, and marica (black
  pepper) Piper nigrum, L.ADPS: 294,
  NK: v. 1, #1929, 47
three-leaved caper (varuna) Crataeva
  magna (Lour.) DC. See AVS: v. 2, 202;
  cf. NK: v. 1, #696, 34
tree cotton (kārpāsa) G. arboreum L.
   ADPS: 231. Pace the identifications of
  Singh and Chunekar (GVDB: 92, 247),
  since G. barbadense L. is native to
  South America and G. herbaceum L.
  which is native to Africa, 28
tree cotton (picu) See kārpāsa, 30, 33
turmeric (haridrā) Curcuma longa Linn.
   GVDB: 465, 47, 52
turmeric (rajanī) Curcuma longa, L.
   ADPS: 169, AVS: v. 2, 259, NK: v. 1,
  #750, 48
velvet-leaf (pāthā) Cissampelos pariera, L.
  See ADPS: 366, NK: v. 1, #592,
  GJM1: 573, AVS: v. 1, 95; cf.
```

AVS: v. 2, 277, 47

```
velvet-mite (indragopa) Kerria lacca
   (Kerr.). Lienhard 1978, 30
verbena (phañjī) Clerodendrum serratum,
  L. See AVS: v. 2, 121, ADPS: 87, 33
watered buttermilk (udaśvit) MW: 183, 31
weaver's beam tree (muskaka) Schrebera
  swietenioides, Roxb. See AVS: v. 5, 88,
  Lord, NK: v. 1, #2246, 51
white calotropis (alarka) Calotropis
  procera, (Ait.) R. Br. See NK: v. 1, #428,
  Chopra: 46b, Chopra IDG: 305–308, 31
white clitoria (\acute{s}vet\bar{a}) \rightarrow giry\bar{a}hv\bar{a}. Clitoria
  ternatea, L. See AVS: v. 2, 129, NK: v. 1,
  #621, 32
white cutch tree (somavalka) Acacia
   polyacantha, Willd. See AVS: v. 1, 30,
  IGP 7, GJM1: 602, AVS: v. 2, 935; pace
  NK: v. 1, #1038, 33, 51
white siris (kinihī) Albizia procera,
   (Roxb.) Benth. See GVDB 98, NK: v. 1,
  #93, 47
white water-lily (kumuda) Nymphaea
  alba, Linn. GVDB: 105, 25
wild asparagus (bahuputr\bar{a}) \rightarrow nandana?
  Asparagus racemosus, Willd. See
  ADPS: 441, AVS: v. 1, 218, NK: v. 1,
  #264, IGP: 103, AVS: v. 4, 2499 ff,
  Dymock: v. 3, 482 ff, 33
wild celery (agnika) \rightarrow may be bhal\bar{a}taka,
  lāngalī, ajamodā, morata, or agnimantha,
  GVDB: 4. Uncertain, 47
wild celery (ajamodā) Apium graveolens,
  L., 47
Withania (aśvagandhā) Withania
  somnifera (L.) Dunal. See AVS: v. 5,
   409 f, Dymock: v. 2, 566 f., Chevallier
  150, 31
wood apple (kapittha) Limonia acidissima,
  L. See AVS: v. 3, 327, NK: v. 1, #1021,
woodrose (mūṣikakarṇī) Jatopha curcas, L.
   AVS: v. 3, 261, NK: v. 1, #1374.
  GVDB: 317; ADPS: 23-25 discuss this
  issue well, 32
yellow-berried nightshade (ksudrā)
```

Solanum virginianum, L. See ADPS: 100, NK: v. 1, #2329,

AVS: v. 5, 164, 47, 48

Todo list

	Dalhaṇa?	25
	jalabhakta	25
	Cf. Arthaśāstra 1.21.8	28
	I'm still unhappy about this verse	31
	Mention this in the introduction as an example of the scribe know-	
	ing the vulgate	31
	fn about sadyas+	31
	Bear's bile instead of deer's bile	32
	punarṇṇavā in the N & K MSS	33
	śrita for śṛta	33
	explain more	33
	Medical difference from Sharma	34
	example where the vulgate clarifies that these should be used sep-	
	arately; appears to be a gloss inserted into the vulgate text	34
	The two uses of prāpta are hard to translate. prāptā $h \rightarrow k$ ṣipram is	
	an example of the vulgate banalizing the Sanskrit text to make	
	sense of a difficult passage	34
	$\sqrt{\text{vyadh not }\sqrt{\text{vedh (also elsewhere and for the ears)}}$, causative	
	optative	34
	opposite of the vulgate Same as 1.8.89 (As 1980: 79)	35
	-> ativișa	43
	Look up the ca. reference	43
	Come back to the issue of "kalpa". Look up passages in the Kośa.	49
	write footnote: don't repeat ativiṣā; vulgate similar to H	52
	material corresponds to SS.1.45.205ab, where it describes how al-	
	cohol affects the body.	55
	where is cutting with a knife related to removing bile or phlegm	57
ĺ	maṣī burned charcoal. Find refs	58
	find ref	63
	Check out these refs	64
j	meaning of kalpa	64
Ì	or a dual?	68