# of the New Edition of the Suśrutasamhitā Jason Birch and Dominik Wujastyk Draft of 15th October 2021 Spann Birch and Dominik Wujastyk Praft of October 15th October 2021 Color of the New Edition of the Suśrutasamhitā Jason Birch and Dominik Wujastyk Praft of October 15th October 2021 Real of October 15th October 2021 Real of October 15th October 2021 Real of Octo

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### **Abstract**

The Suśruta Project is producing a new Sanskrit text edition of the Su-śrutasaṃhitā based on the early Nepalese manuscripts. As we gradually transcribe and edit the manuscripts, we are producing this new translation of the classic work.

 $<sup>\,</sup>$  1  $\,$  MS Kathmandu KL 699, MS Kathmandu NAK 1-1079, and MS Kathmandu NAK 5-333.

# **Contents**

The manuscripts and editions used in the vulgate editions by Yā-	•
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	7
The 1939 edition	8
For the Bhānumatī	8
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	<b>2</b> 0
Sūtrasthāna, adhyāya 28	21
Kalpasthāna, adhyāya 1	22
Literature	22
Manuscript notes	23
Translation	24
[Threats to the king]	24
Uttaratantra, adhyāya 16 (17 in the vulgate)	30
Literature	30
Translation	30
[Complications]	39
[Characteristics of the probe]	40
[Complications]	40
Uttaratantra, adhyāya 38	42

Abbreviations	43
Index of Manuscripts	45
References	46
Glossary On digital critical editions	58 67
4	
4	

# Kalpasthāna, adhyāya 1

The first chapter of the Kalpasthāna of the *Suśrutasaṃhitā* addresses the topic of protecting a king from those who would assassinate him using poison. The king's kitchen is presented as the site of greatest vulnerability. The staff in the kitchen must be vetted carefully and watched for signs of dissimulation. The description of the body-language that tells a poisoner (verses 18–25) are engaging and vivid. These verses are closely parallel in sense to a passage in the *Arthaśāstra* that says,

The signs of a poisoner, on the other hand, are as follows: dry and dark look on the face, stuttering speech, excessive perspiration and yawn- ing, trembling, stumbling, looking around while speaking, agitation while working, and not remaining in his place.<sup>50</sup>

Next, the text discusses the signs of poison in toothbrushes, in food, drink, massage oil and other items that are likely to come into physical contact with the king. In passages that are again paralleled in the *Arthaśāstra* the work describes how poisoned food kills insects and crackles in a fire, flashing blue and the reactions of various birds to poison are described.<sup>51</sup>

The work then moves on to the various symptoms experienced by the king after being poisoned, and remedies appropriate to each case. Poison exhibits characteristic signs when added to milk and other drinks.<sup>52</sup> Further forms of poisoning, their symptoms and treatments are described and finally the king is advised to live amongst trusted friends and to protect his heart by drinking various ghee compounds. He should eat the meat and soup made from various animals, including peacock, mongoose, alligator, deer. The chapter ends with the description of an emetic.

### Literature

A brief survey of this chapter's contents and a detailed assessment of the existing research on it to 2002 was provided by Meulenbeld.<sup>53</sup> Translations

<sup>50</sup> *Arthaśāstra* 1.21.8 (Kangle 1969: 1, 30), translation by Olivelle (2013: 97).

<sup>51</sup> Cf. *Arthaśāstra* 1.21.6, *ibid.*, Olivelle (2013: 96).

<sup>52</sup> Cf. *Arthaśāstra* 1.21.6 again.

<sup>53</sup> HIML: IA, 289–290.

of this chapter since 2000 have appeared by Wujastyk (2003: 131–139), P. V. Sharma (1999–2001: 3, 1–15), and Srikantha Murthy (2000–2).<sup>54</sup>

More recently, a discussion of the fourth chapter of this section in the light of the Nepalese manuscripts was published by Harimoto.<sup>55</sup> After a close comparative reading of lists of poisonous snakes, Harimoto concluded that, "the Nepalese version is internally consistent while the [vulgate] editions are not." Harimoto showed how the vulgate editions, had been adjusted textually to smooth over inconsistencies, and gave insights into these editorial processes.<sup>56</sup>

# Manuscript notes

• MS Kathmandu NAK 5-333 has foliation letter numerals, for example on f. 323a, that are similar to MS Cambridge Add. 1693,<sup>57</sup> dated to 1165 ce noted in Bendall's chart of Nepalese letter-numerals Bendall 1883: Lithograph V, after p. 225

For a bibliography of translations to 2002, including Latin (1847), English (1877), Gujarati (1963) and Japanese (1971), see HIML: IB, 314–315.

<sup>55</sup> Harimoto **2011**: 101–104.

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

<sup>57</sup> Scan at cudl.lib.cam.ac.uk/view/MS-ADD-01693/1.

### **Translation**

- 1–2 And now I shall explain the procedures for safeguarding food and drink, as were declared by the Venerable Dhanvantari.<sup>58</sup>
  - 3 Divodāsa, the king of the earth, was the foremost supporter of religious discipline and virtue. With unblemished instruction he taught his students, of whom Suśruta was the leader.<sup>59</sup>

# [Threats to the king]

- 4–5 Evil-hearted enemies who have plucked up their courage, may seek to harm the king, who knows nothing of it. He may be assailed with poisons by or by his own people who have been subverted, wishing to pour the poison of their anger into any vulnerability they can find.<sup>60</sup>
  - 6 Therefore, a king should always be protected from poison by a physician.
  - 7 The racehorse-like fickleness of men's minds is well known. And for this reason, a king should never trust anyone.<sup>61</sup>
- 8–11 He should employ a doctor in his kitchen (*mahānasa*) who is respected
  - 58 MS H adds in the margin अथ खलु वत्स सुश्रुतः "Now begins Vatsa Suśruta." This phrase has been copied here by the scribe from the beginning of the *Suśrutasaṃhitā* chapter in the *sūtrasthāna* on the rules about food and drink (1.46.3 (Su 1938: 214)). The scribe presumably felt, not unreasonably, that this section had common subject matter with the present chapter. Further, SS 1.46.3 is the only place in the Nepalese transmission of the *Suśrutasaṃhitā* that names Dhanvantari and integrates him into the narrative of the *Suśrutasaṃhitā* as the teacher of Suśruta.
    - The mention of Dhanvantari here is the only other time in the Nepalese transmission that this authority is cited as the source of Ayurvedic teaching, and the unique occurrence of this actual phrase, "as was declared by the Venerable Dhanvantari." See the discussion by Klebanov (2021a: 28–32), who concludes that the earliest recoverable recension of the *Suśrutasaṃhitā* may have had the phrase only at this point and not elsewhere in the work. See the further discussion by Birch et al. (2021).
  - 59 This is a quite different statement from the vulgate which has Dhanvantari as the teacher, and calls him the Lord of Kāśī (kāśipati) (Su 1938: 559). Dalhaṇa followed the vulgate but explicitly noted the reading before us with small differences: दिवोदासः क्षितिपतिस्तपोधर्मश्रुताकरः "Divodāsa, the king of the earth, was a mine of traditions about discipline and virtue."
  - 60 Verses about the use of Venemous Virgins as a weapon do not appear in the Nepalese manuscripts. Cf. Wujastyk 2003: 81 f., 132. This material is present in the commentary of Gayadāsa.
  - 61 The verb  $\sqrt{\text{s}}$  vas is conjugated as a first class root in the Nepalese manuscripts.

- by experts, who belongs to a good family, is orthodox, sympathetic, not emaciated, and always busy.
- 12–13 The kitchen should be constructed at a recommended location and orientation. It should have a lot of light, 62 have clean utensils and be staffed by men and women who have been vetted. 63
- 17–18ab The chefs, bearers (*voḍhāra*), and makers of boiled rice soups and cakes and whoever else might be there, must all be under the strict control of the doctor.<sup>64</sup>
- 18cd–19ab An expert knows people's body language (*ingita*) through abnormalities in voice, movement and facial expression. He should be able to identify a poisoner by the following signs.
  - Wanting to speak, he gets confused, when asked a question, he never arrives at an answer, and he talks a lot of confused nonsense, like a fool. He laughs for no reason, cracks his knuckles and scratches at the ground. He gets the shakes and glances nervously from one person to another. His face is drained of colour, he is grimy (*dhyāma*) and he cuts at things with his nails.<sup>65</sup> A poisoner goes the wrong way and is absent-minded.
    - I shall explain the signs to look for in toothbrush twigs, in food and drink as well as in massage oil (abhyaṅga) and combs (avalekhana); in dry rubs (utsādana) and showers, in decoctions (kaṣāya) and massage ointment (anulepana); in garlands (sraj), clothes, beds, armour and ornaments; in slippers and footstools, and on the backs of elephants and horses; in nasya (snuff), inhaled smoke (dhūma), eye make-up (añjana), etc., and any other things which are commonly poisoned. Then, I shall also explain the remedy.
      - 28 Flies or crows or other creatures that eat a poisonous morsel (*bali*) served from the king's portion, die on the spot.

Cf. Arthaśāstra

<sup>62</sup> We read महच्छुचिः with the Nepalese manuscripts and against the vulgate's महच्छुचि. We understand शुचिस् as a neuter noun meaning "light" following Apte (1992: 1050a).

<sup>63</sup> Verses detailing the ideal staff are omitted in the Nepalese manuscripts. Cf. Su 1938: 560; Wujastyk 2003: 132.

<sup>64</sup> The word सौपोदनैकपूपिक "chefs for the boiled rice soups and cakes" is grammatically interesting. The term सूपोदन (as opposed to sūpaudana) is attested in the *Bodhāyanīya-gṛhyasūtra* 2.10.54 (Shastri 1920: 68). More pertinently, perhaps, सूपोदन is attested in the Bower Manuscript, part II, leaf 11r, line 3 (Hoernle 1893–1912: vol. 1, p. 43).

<sup>65</sup> The word ध्याम is glossed by Dalhana (in a variant reading) as someone who is the colour of dirty clothes 5.1 (Su 1938: 560).

- 29 Such food makes a fire crackle violently, and gives it an overpowering colour like a peacock's throat.
- 30–33 After a chukar partridge looks at food which has poison mingled with it, its eyes are promptly drained of colour; a peacock pheasant drops dead. A koel changes its song and the common crane rises up excitedly.<sup>66</sup> It will excite a peacock and the terrified parakeet and the hill myna screech. The swan trembles very much, and the racket-tailed drongo churrs.<sup>67</sup> The chital deer sheds tears and the monkey releases excrement.<sup>68</sup>
- Vapour rising from tainted food gives rise to a pain in the heart, it makes the eyes roll, and it gives one a headache.<sup>69</sup>
- 35, 36cd In such a case, an errhine and a collyrium that are costus, lāmajja grass (*lāmajja*), spikenard (*nalada*) and honey (*madhus*);<sup>70</sup> a paste of sandal-wood on the heart may also provide relief.<sup>71</sup>
  - 66 The verb अर्च्छित "rises up" is a rare form best known from epic Sanskrit (see Oberlies 2003: 212, §7.6.1). The transmitted form क्रोञ्च is obviously a colloquial version of Sanskrit क्रोञ्च. Commenting on 1.7.10 (Su 1938: 31), Dalhaṇa interestingly gives the colloquial versions of several Sanskrit bird names, even singling out pronunciation in the specific location of Kāṇyakubja. For क्रोञ्च he says that people pronounce it कुरञ्ज and कोंचि. The form कोञ्च is found in Pāli (see Cone 2001: 731, who notes that Ardhamāgadhī has the same form). Elsewhere, Dalhaṇa calls the bird क्रोञ्चिर, क्रोञ्च, and कैचर (1.46.105 (Su 1938: 223), 6.31.154 (Su 1938: 684) and (6.58.44 (Su 1938: 790) respectively).
  - 67 Dalhana seemed confused about the racket-tailed drongo (भृङ्गराज). He called it a generic drongo (भ्रमरक), a word that can also mean "bee," (Dave 1985: 62), and then said that it is like the black drongo (धूम्याट) (for a nice explanation of this name, see Dave 1985: 62–63) and that people call it "the king of birds."
  - 68 MS Kathmandu KL 699 reads bull (বৃषभ) for Chital deer (पृषत). The latter may perhaps be mistaken for the former in the Newa script, although the reading of MS Kathmandu KL 699 is hard to read at this point.
  - 69 "Tainted" translates उपक्षिप्त. The word's semantic field includes "to hurl, throw against," and especially "to insult verbally, insinuate, accuse." The commentator Dalhaṇa glossed the term as, "spoiled food given to be eaten" (विदूषितस्यान्नस्य भोक्तुं दत्तस्य), but he noted that some people read "उखाक्षिप्त" or "thrown into a pan." Other translators have commonly translated it as "served," perhaps influenced by Dalhaṇa's "given (दत्त)."
  - 70 The vulgate supplies another phrase and verb at this point that is not present in the Nepalese transmission, but that makes the text flow more easily.
  - 71 Singh and Chunekar (1972: 350) discussed the difficulties in identifying লামজ, a plant cited more often in the *Suśrutasaṃhitā* than in the *Carakasaṃhitā*; Dalhaṇa adopted the common view that it is a type of *uśīra* or vetiver grass. The grammatical

- Held in the hand, it makes the hand burn, and the nails fall out. In such a case, the ointment (pralepa) is beautyberry ( $\acute{s}y\bar{a}m\bar{a}$ ), velvet-mite (indragopa), soma and water-lily (utpala).<sup>72</sup>
- 38–39 If he eats that food, through inattention or by mistake, then his tongue will feel like a pebble  $(aṣṭh\bar{\imath}l\bar{a})$  and it will lose its sense of taste. It stings and burns, and his saliva  $(\acute{s}le\not{s}man)$  dribbles out.<sup>73</sup> In such a case, he should apply the treatment recommended above for vapour  $(b\bar{a}\not{s}pa)$ , and what will be stated below under "toothbrush twigs".<sup>74</sup>
  - On reaching his stomach, it causes stupor  $(m\bar{u}rcch\bar{a})$ , vomiting, the hair stands on end, there is distension, a burning feeling and an impairment of the senses.<sup>75</sup>
  - In this case, vomiting must quickly be induced using the fruits of emetic
    - neuter form मधुस् "sweetness" of the Nepalese manuscripts is less common than neuter मधु "honey, sweetness, liquorice."
  - 72 "Beautyberry" (Callicarpa macrophylla Vahl.) is one identification of श्यामा, but vaidyas and commentators have different ideas about the plant's identity (see Singh and Chunekar 1972: 410; Warrier et al. 1994–6: 1: 334; Nadkarni 1954: #420).
    - On translating इन्द्रगोप as "velvet-mite," see Lienhard 1978. Dalhaṇa's remarks show that he had a reading इन्द्रागोपा before him, and he tries to explain इन्द्रा and गोपा as separate plants. But he also says that some people read इन्द्रगोप.
    - Dalhaṇa curiously parses the name सोमा (f.) out of the compound; this feminine noun is almost unknown to Ayurvedic literature. Some dictionaries and commentators consider it a synonym for गुडूची, others for ब्राह्मी or चन्द्रतरु. Dalhaṇa also mentions that some people think the word refers to the soma creeper (सोमलता), which might explain his choice to take the word as feminine. But the compounded word is far more likely to be सोम (m.), the well-known mystery plant (see Wujastyk 2003: 76–78, 125). If this can be taken as rue (Ruta graveolens, L.), as some assert, one can point to a pleasing passage in Dioscorides where rue plays an antitoxic role: "...it is a counterpoison of serpents, the stinging of Scorpions, Bees, Hornets and Wasps; and it is reported that if a man be anointed with the juice of the Rue, these will not hurt him; and that the serpent is driven away at the smell thereof when it is burned; insomuch that when the weasel is to fight with the serpent she armeth herself by eating Rue, against the might of the serpent" (cited from Wren 1956: 262; not found in Osbaldeston and Wood 2000).
  - The word अष्ठीला is normally feminine. The Nepalese manuscripts read it with a short अ- ending. Gayadāsa noticed that some manuscripts read সন্তুলিক with a short -अ ending (MS Bikaner RORI 5157, f. 5v:7–8) and Dalhana reproduced his observation. The vulgate reading "from his mouth (चास्यात्)" is more obvious (lectio facilior), but is not attested in the Nepalese manuscripts.
  - 74 Poisoned toothbrushes are discussed in verses 48 ff. below.
  - 75 I translate मूर्च्छा in the light of the metaphors discussed by Meulenbeld (2011), that include thickening and losing consciousness.

- nut (madana), bitter gourd ( $al\bar{a}bu$ ), red gourd ( $bimb\bar{\imath}$ ), and luffa ( $kos\bar{\imath}-tak\bar{\imath}$ ), taken with milk and watered buttermilk ( $uda\acute{s}vit$ ), or alternatively with rice-water.
- Reaching the intestines ( $pakv\bar{a}\acute{s}aya$ ), it causes a burning feeling, stupor, diarrhoea, thirst, impairment of the senses, flatulence ( $\bar{a}\acute{t}opa$ ) and it makes him pallid and thin.
- In such a case, purgation with the fruit of indigo  $(n\bar{\imath}l\bar{\imath})$ , together with ghee, is best. And 'slow-acting poison antidote  $(d\bar{\imath}s\bar{\imath}vis\bar{\imath}ari)$ ' should be drunk with honey and curds (dadhi).<sup>76</sup>
- When poison is in any liquid substances such as milk, wine or water, there are various streaks, and foam and bubbles form.
- And no reflections are visible or, however, if they can be seen once more, they are distorted, fractured, or tenuous and distorted too.<sup>77</sup>
- Vegetables, soups, food and meat are soggy and tasteless. They seem to go stale suddenly, and they have no aroma.
- 47 All edibles lack aroma, colour or taste. Ripe fruits rapidly rot  $(pra\sqrt{kuth})$  and unripe ones ripen.<sup>78</sup>
- When a toothbrush twig has poison on it, the bristles are corroded and the flesh of the tongue, gums and lips swells up.<sup>79</sup>
- Then, once his swelling is lanced, one should rub (*pratisāraṇa*) it with fire-flame bush flowers (*dhātakīpuṣpa*), jambul (*jambū*), mango stones (*āmrāsthi*) and chebulic myrobalan (*harītakī*) fruit mixed with honey.<sup>80</sup>
- 50 Alternatively, the rubbing (*pratisāraṇa*) can be done with either the roots of sage-leaved alangium (*aṅkolla*), the bark of blackboard tree

76 The 'slow-acting poison' is discussed at 5.2.25 ff. (Su 1938: 565).

- Both Nepalese witnesses read distorted (vikṛta) twice, which is tautologous. In the first occurrence both read বিকৃরা without proper termination. One might read the sandhi in the second occurrence as or not distorted (vāvikṛtā), but this gives no better sense. The scribe of MS Kathmandu NAK 5-333, apparently the original hand, added in the margin the alternate reading "double (yamalā)" as in the vulgate. Perhaps the scribe too was troubled by the tautology. It is also evidence that he was aware of a witness with variant readings similar to the vulgate. We emend for grammar but retain the lectio difficilior.
- 78 The root  $\sqrt{3}$  eq "stink, putrify, rot" is apparently known only from its few uses in the Suśrutasaṃhitā.
- 79 Gayadāsa and Dalhaṇa point out that "enclosure of a tooth (दन्तवेष्ट)" and "flesh of the tooth (दन्तमांस)" have the same meaning (2.16.14–26 (Su 1938: 331–332)).
- 80 This recipe is different from the vulgate.

I'm still unhappy about this

Mention this in the introduction as an example of the scribe knowing the vulgate

fn about sadyas+

- (saptachada) or siris seeds (śirīṣamāṣaka).81
- One should give advice about a poisoned tongue-scraper or mouthwash (*kavala*) in the same way as for a toothbrush twig.
- 51cd Massage oil that has been laced with poison is slimy, thick and discoloured.
  - When the massage oil has been contaminated with poison, boils arise, pain, a discharge  $(sr\bar{a}va)$ , inflammation of the skin, and sweating.<sup>82</sup> And the flesh  $(m\bar{a}msa)$  splits open.
- In such a case, sandalwood, Indian rose-bay (tagara), sostus, and vetiver grass (uśīra), bamboo leaves (veṇupatrikā), heart-leaved moonseed (somavallī) and calamine (amṛtā), white clitoria (śvetā), sacred lotus (padma), and Indian barberry (kālīyaka) should be made into an ointment (anulepana) for the patient, who has been sprinkled with cold water. That is also recommended as a drink with the juice and leaves of wood apple (kapittha). 84
  - In the case of a dry rub (*utsādana*), a shower (*parīṣeka*), an infusion, a massage ointment (*anulepana*), or in beds, clothes, or armour, the physician should understand that it is the same as for massage (*abhyaṅga*).85
- When a comb has poison in it, the hair falls out, the head aches and blood oozes from the follicles (*kha*) and lumps (*granthi*) appear on the head. In such a case, one should repeatedly apply an ointment of black earth soaked with bear's bile, <sup>86</sup> ghee, beautyberry (*śyāmā*), <sup>87</sup> black creeper (*pālindī*) and amaranth (*taṇḍulīyaka*). Good alternatives are

Bear's bile instead of deer's bile.

<sup>81</sup> The spelling of the name अङ्गोल varies अङ्गोल, अङ्गोल (Singh and Chunekar 1972: 5); Dalhaṇa notes that the form अङ्गोल is a colloquialism (1.37.12 (Su 1938: 161)). The sentence is awkward and we have emended शिरीषमाषक to be a plural, as in the vulgate, rather than the ablative singular of the Nepalese witnesses. We follow Dalhaṇa in interpreting the compound to refer to the distinctive bean-like siris seeds, rather than to mung beans (माषक) (5.1.50 (Su 1938: 562)).

<sup>82</sup> The feminine स्फोटा for "boils" is unattested.

<sup>83</sup> Some say तगर is Indian valerian, but there remain many historical questions about the ancient and regional identities of this plant (see, e.g., Singh and Chunekar 1972: 173-174)[334]avs.

<sup>84</sup> This compound could be interpreted as "wood apple juice and cassia cinnamon (*patra*)." Note that this recipe is differs from that of the vulgate, which requires urine.

<sup>85</sup> See verse 52 above.

<sup>86</sup> Dalhaṇa comments here that 'bile is that fluid which goes along inside the tube attached to the liver' (कालखण्डलग्रनलिकामध्यगतजलं पित्तम्) 5.1.57 (Su 1938: 562).

<sup>87</sup> See note **72**.

- either the fluid extract of cow-dung, or the juice of jasmine  $(m\bar{a}lat\bar{\iota})$ , the juice of woodrose  $(m\bar{u}sikakarn\bar{\iota})$ , or household soot.<sup>88</sup>
- If either massage oil for the head, or a helmet for the head, in a wash, turban, or garlands that are contaminated with poison, then one should treat it in the same way as a comb.
- When face make-up is poisoned, the face becomes dark and has the symptoms found with poisoned massage oil. It is covered with spots (kaṇṭaka) that are like lotus-spots (padminīkaṇṭaka). In this case, the drink is honey and ghee, and the ointment (pralepa) is sandalwood with ghee, curds (payasyā), honey, verbena (phañjī), scarlet mallow (bandhu-jīva) and hogweed (punarnavā).

punarṇṇavā in the N & K MSS

- 62–63ab Elephants and the like become ill and they dribble saliva. And the rider gets spots (*sphoṭa*) and a discharge on his scrotum, penis, and rectum. In this case, one prescribes the same therapy as for poisoned massage oil for both the rider and the mount.
- When there is poison in snuff (nasya) or smoke, the symptom (linga) is blood coming out of the apertures of the head (kha), a headache, a flow of mucus (kapha) and impairment of the senses.

  In such a case, ghee of cows etc., boiled up with their milk and atis roots (ativiṣā), is prescribed, with henna (madayantikā), as a cold drink or errhine.

śrita for śrta

- 65cd–66 Flowers lose their fragrance and colour, and wilt. On smelling them, he gets a headache and his eyes fill with water. In this case, the treatment is what was proposed above for vapour  $(b\bar{a}spa)$  and that which is traditional for face make-up.
  - 88 The plant identifications in this passage follow Dalhaṇa's glosses, although he noted a difference of opinion on the identity of mouse-ear (mūṣikakarṇī). Singh and Chunekar 1972: 317; Sivarajan and Balachandran 1994: 23–25 discussed this issue well. The expression धूमो वागारमंजितः '...or the smoke termed "house" ' is commonly interpreted by translators and in Ayurvedic dictionaries as 'household soot,' and this does seem to be the meaning, in context. The term was comprehensively discussed by Meulenbeld (2008: 443).
  - 89 See the description of this condition at 2.13.40 (Su 1938: 323), where the skin on the face is characterized as having pale circular patches that are itchy and have spots.
  - 90 The common plant-name पुनर्नवा is read as पुनर्णवा in both Nepalese witnesses. This unusual form is technically-speaking legal according to Pāṇini 8.4.3, but is not attested in published texts. पुनर्णवा is found rarely in some other Nepalese manuscripts such as the *Brahmayāmala* (a.k.a. *Picumata*, 44.81, transcription thanks to Shaman Hatley), and elsewhere (e.g., in Gaṇapatiśāstrī 1920–5: 20, where it is the name of a constellation.

67–68 When it is in ear-oil, there is degeneration in the ear, and painful swelling. There is also a discharge from the ear and in such a case it needs to be refilled (*pratipūraṇa*) promptly with ghee and honey. Extracted juice (*svarasa*) of wild asparagus (*bahuputrā*) and very cold juice of white cutch tree (*somavalka*) is also recommended as something good.

69 When poison is mixed in with eye make-up (añjana), he gets rheumy tears (aśrūpadeha), with a burning feeling, pain, bleary vision, and possibly even blindness.

- 70–71 In this case, one must immediately have ghee as a drink and, with long pepper (māgadha), in a balm (tarpaṇa), have an eye ointment (añjana) prepared out of the juice of periploca of the woods (meṣaśṛṅga) and have the extract (niryāsa) of three-leaved caper (varuṇa), wood apple (kapitha) and periploca of the woods (meṣaśṛṅga) and the flower of marking-nut tree (bhallātaka).
- If his slippers have been poisoned, then there will definitely be a swelling, numbness  $(sv\bar{a}pa)$ , a discharge  $(sr\bar{a}va)$  and an outbreak of spots (spho!a) on the feet. One should clean  $(pra\sqrt{s\bar{a}dh})$  footstools together with slippers.
  - Ornaments lose their lustre, and they do not shine as they used to. The places they touch are afflicted with burning, sepsis  $(p\bar{a}ka)$ , and fissuring  $(avad\bar{a}rana)$ .
- One should apply the procedures for massage oil (*abhyanga*) to what has been said about slippers and ornaments.
- 75cd–76 In the case of the affliction (*upasarga*) by poison that has been described above, starting from 'vapour' and ending with 'ornaments,' the physician should observe the side-effects (*upadrava*) and then prescribe the therapy called the Great Fragrance (*mahāsugandha*) antidote (*agada*). I shall describe it.
  - He should prescribe it in drinks, liniments ( $\bar{a}lepana$ ), errhines (nasya), and in eye ointment ( $a\tilde{n}jana$ ). Also, he should use severe purgatives and emetics. And if bloodletting is indicated, he should immediately open his veins.

are? genders?

example where the vulgate clarifies that these should be used separately

# Uttaratantra, adhyāya 38

1 Now you can write 6.38.

## **Abbreviations**

Ah 1939 Kuṃṭe, Aṇṇā Moreśvara, Navare, Kṛṣṇaśāstrī, and Parādkar,

Hariśāstrī (1939) (eds.), श्रीमद्वाग्भटविरचितम् अष्टाङ्गहृदयम्, श्रीमद्र-रुणदत्तविरचितया सर्वाङ्गसुन्दराख्यया व्याख्यया, हेमाद्रिप्रणीतया आयुर्वेदर-सायनाह्वया टीकया च समुल्लसितम् = The Astāngahṛidaya (6th edn., Muṃbayyām: Nirṇayasāgara Press), ark:/13960/t3tt6967d.

Anup Anup Sanskrit Library (n.d.).

AS Asiatic Society (n.d.).

As 1980 Aṭhavale, Anaṃta Dāmodara (1980) (ed.), Aṣṭāṅgasaṅgrahaḥ.

Śrīmad Vṛddhavāgbhaṭaviracitaḥ Induvyākhyāsahitaḥ (Puṇe: Maheśa Anaṃta Āṭhavale, Śrīmad Ātreya Prakāśanam), ark:/

13960/t9773bb9z.

Bhela 1921 Mookerjee, Ashutosh and Ananta Krishna Shastri, Ved-

antabisharad (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 (n.d.).

Ca. 1941 Ācārya, Yādavaśarma Trivikrama (1941) (ed.), महर्षिणा पुनर्व-

सुनोपदिष्टा, तच्छिष्येणाग्निवेशेन प्रणीता, चरकदृढबलाभ्यां प्रतिसंस्कृता च-रकसंहिता, श्रीचक्रपाणिदत्तविरचितया आयुर्वेददीपिकाव्याख्यया संविलता (3rd edn., Mumbayyāṃ: Nirnaya Sagara Press), URL, accessed

01/01/2018.

HIML Meulenbeld, Gerrit Jan (1999–2002), A History of Indian

Medical Literature, 5 vols. (Groningen: E. Forsten), ISBN:

9069801248.

KL *Kaiser Library* (n.d.).

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

- NCC Raghavan, V. et al. (1949–), New Catalogus Catalogorum, an Alphabetical Register of Sanskrit and Allied Works and Authors, 39 vols. (Madras University Sanskrit Series; Madras: University of Madras); v.1: revised edition, 1968.
- NGMCP (2014), 'Nepal-german Manuscript Cataloguing Project. Online Title List and Descriptive Catalogue', Universität Hamburg and Deutsche Forschungsgemeinschaft, URL.
- RORI Rajasthan Oriental Research Institute (n.d.).
- Su 1889 Bhaṭṭācāryya, Jīvānanda Vidyāsāgara (1889) (ed.), सृश्रुतः. सूत्र-निदान-शारीर-चिकित्सा-कल्पोत्तर-तन्त्र-किल्पत आयुर्वेद. भगवता धन्वन्तरिणोपदिष्टः सृश्रुतनामधेयेन तच्छिष्येण विरचितः (3rd edn., Calcutta: Saratī Press), ark:/13960/t1nh6j09c; HIML:IB, 311, edition b.
- Su 1915 Ācārya, Yādavaśarma Trivikrama (1915) (ed.), सुश्रुतसंहिता, सु-श्रुतेन विरचिता, वैद्यवरश्रीडल्हणाचार्यविरचितया निबन्धसंग्रहाख्यव्याख्यया समुल्लसिता, आचार्योपाह्वेन त्रिविक्रमात्मजेन यादवशर्मणा 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.
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- Su 1938 Ācārya, Yādavaśarma Trivikrama and Ācārya, Nārāyaṇa Rāma (1938) (eds.), श्रीडल्हणाचार्यविरचितया निबन्धसंग्रहाख्य-व्याख्यया निदानस्थानस्य श्रीगयदासाचार्यविरचितया न्यायचन्द्रिकाख्यप- ञ्जिकाव्याख्यया च समुल्लसिता महर्षिणा सुश्रुतेन विरचिता सुश्रुतसंहिता (3rd edn., Bombay: Nirṇayasāgara Press), ark:/13960/t09x0sk1h; HIML: IB, 313, edition cc ('the vulgate').

Su 1938<sup>2</sup> Ācārya, Yādavaśarma Trivikrama and Ācārya, Nārāyaṇa Rāma (2004) (eds.), महर्षिणा सुश्रुतेन विरचिता सुश्रुतसंहिता, श्रीडल्हणाचार्यविरचितया निबन्धसंग्रहाख्यव्याख्यया निदानस्थानस्य श्री-गयदासाचार्यविरचितया न्यायचन्द्रिकाख्यपञ्जिकाव्याख्यया च समुल्लसिता (Vārāṇasī: Caukhambhā Kṛṣṇadāsa Akādamī); Reprint of the third, 1938 edition (Su 1938).

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, Nārāyaṇa Rāma (1945) (eds.), महर्षिणा सुश्रुतेन विरचिता सुश्रुतसंहिता (मूलमात्रा). पाठान्तर-परिशिष्टादिभिः संविलता = the Suśrutasaṃhitā of Suśruta with Various Readings, Notes and Appendix etc. (Mumbāi: Nirṇayasāgarākhyamudraṇālaye), URL.

TMSSML Tanjore Maharaja Serfoji Saraswati Mahal Library (n.d.).

Viṣṇudh. 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 Pāṭhaśālā.

# **Index of Manuscripts**

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

Bikaner RORI 5157 27 Kathmandu NAK 1-1079 2
Cambridge Add. 1693 23
Kathmandu KL 699 2, 26

Kathmandu KL 699 2, 26

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# Glossary

abhyaṅga	avalekhana	patra 29
massage 29	combs 25	cāsyāt
massage oil 25, 31	<u> </u>	from his mouth 27
affliction	bahuputrā	chebulic myrobalan
upasarga 31	wild asparagus 31	harītakī 28
agada	bali	chital deer
antidote 31	morsel 25	pṛṣata <mark>26</mark>
alābu	balm	clean
bitter gourd 28	tarpaṇa 31	pra√sādh 31
ālepana	bamboo leaves	combs
liniments 31	veņupatrikā <mark>29</mark>	avalekhana 25
amaranth	bandhujīva	curds
taṇḍulīyaka 29	scarlet mallow 30	dadhi 28
āmrāsthi	bāṣpa	payasyā 30
mango stones 28	vapour 26f, 30	J
amṛtā	bearers	dadhi
calamine 29	voḍhāra 25	curds 28
añjana	beautyberry	dantamāṃsa
eye make-up 25, 31	śyāmā 27, 29	flesh of the tooth 28
eye ointment 31	bhallātaka	dantaveșța
aṅkolla	marking-nut tree 31	enclosure of a tooth
sage-leaved	bhramaraka	28
alangium 28	drongo 26	datta
antidote	bhṛṅgarāja	given 26
agada 31	racket-tailed	decoctions
anulepana	drongo 26	kaṣāya 25
massage ointment	bimbī	dhātakīpuṣpa
25, 29	red gourd 28	fire-flame bush
ointment 29	bitter gourd	flowers 28
apertures of the head	alābu 28	dhūma
kha 30	black creeper	inhaled smoke 25
aśrūpadeha	pālindī 29	dhūmyāṭa
	black drongo	black drongo 26
rheumy tears 31 aṣṭhīlā	dhūmyāṭa 26	dhyāma
pebble 27	blackboard tree	grimy 25
atis roots	saptachada 29	discharge _
	body language	srāva 29, 31
ativiṣā 30 ativisā	ingita 25	distorted
•	bull	vikṛta 28
atis roots 30	vṛṣabha <mark>26</mark>	double
āṭopa flatulence 28	aalamin a	yamalā 28
	calamine	drongo
avadāraņa Garania	amṛtā 29	bhramaraka 26
fissuring 31	cassia cinnamon	dry rub

utsādana <mark>2</mark> 9	dhyāma 25	kāśipati
dry rubs		lord of kāśī 24
utsādana 25	harītakī	kavala
dūṣīviṣāri	chebulic	mouthwash 29
slow-acting poison	myrobalan 28	kha
antidote 28	heart-leaved moonseed	apertures of the
uninuste <b>2</b> 6	somavallī 29	head 30
emetic nut	henna	follicles 29
madana 28	madayantikā 30	kitchen
enclosure of a tooth	hogweed	mahānasa 24
dantaveșța 28	punarnavā 30	koṣītakī
errhines	honey	luffa 28
	madhus 26	iulia 20
nasya 31 extract	mumus 20	lāmajja grass
niryāsa 31	indian barberry	lāmajja 26
	kālīyaka 29	lāmajja
extracted juice	indian rose-bay	22
svarasa 31		lāmajja grass 26
eye make-up	tagara 29	linga
añjana 25, 31	indigo	symptom 30
eye ointment	nīlī 28	liniments
añjana 31	indragopa	ālepana 31
0 0 1 1 0	velvet-mite 27	long pepper
fire-flame bush flowers	iṅgita	māgadha 31
dhātakīpuṣpa 28	body language 25	lord of kāśī
fissuring	inhaled smoke	kāśipati <mark>24</mark>
avadāraṇa 31	dhūma 25	lotus-spots
flatulence	intestines	padminīkaṇṭaka 30
āṭopa 28	pakvāśaya 28	luffa
flesh		koṣītakī 28
māṃsa <b>29</b>	jambū	lumps
flesh of the tooth	jambul 28	granthi 29
dantamāṃsa 28	jambul	
follicles	jambū 28	madana
kha 29	jasmine	emetic nut 28
from his mouth	mālatī 30	madayantikā
cāsyāt 27	3	henna 30
	kālīyaka	madhus
garlands	indian barberry 29	honey 26
sraj 25	kaṇṭaka	māgadha
given	spots 30	long pepper 31
datta 26	kapha	mahānasa
granthi	mucus 30	kitchen 24
lumps 29	kapittha	mahāsugandha
great fragrance	wood apple 29, 31	great fragrance 31
mahāsugandha 31	kaṣāya	mālatī
munusugununu 31	docactions as	iasmina ao

māṃsa	svāpa 31	racket-tailed drongo
flesh 29		bhṛṅgarāja <mark>26</mark>
mango stones	ointment	red gourd
āmrāsthi 28	anulepana 29	bimbī 28
marking-nut tree	pralepa 27, 30	refilled
bhallātaka 31	or not distorted	pratipūraņa 31
māṣaka	vāvikṛtā 28	rheumy tears
mung beans 29		aśrūpadeha 31
massage	padma	rot
abhyanga 29	sacred lotus 29	pra√kuth 28
massage oil	padminīkaṇṭaka	rub
abhyaṅga <b>2</b> 5, 31	lotus-spots 30	pratisāraņa 28
massage ointment	pāka	rubbing
anulepana 25, 29	•	pratisāraņa 28
meṣaśṛṅga	sepsis 31	AC >
periploca of the	pakvāśaya	sacred lotus
woods 31	intestines 28	padma 29
morsel	pālindī	sage-leaved alangium
bali 25	black creeper 29	aṅkolla 28
mouse-ear	parīṣeka	saliva
mūṣikakarṇī 30	shower 29	śleșman 27
mouthwash	patra	saptachada
	cassia cinnamon 29	blackboard tree 29
kavala 29	рауаѕуā	scarlet mallow
mucus	curds 30	bandhujīva 30
kapha 30	pebble	sepsis
mung beans	aṣṭhīlā 27	pāka 31
māṣaka 29	periploca of the woods	shower
mūrcchā	meşasrnga 31	parīṣeka 29
stupor 27	phañjī	side-effects
mūṣikakarṇī	verbena 30	upadrava 31
mouse-ear 30	pra√kuth	siris seeds
woodrose 30	rot 28	
nalada	pra√sādh	śirīṣamāṣaka 29 śirīṣamāṣaka
	clean 31	
spikenard 26	pralepa	siris seeds 29
nasya	ointment 27, 30	śleșman
errhines 31	pratipūraņa	saliva 27
nasya		slow-acting poison
snuff 25	refilled 31	antidote
nasya	pratisāraņa	dūṣīviṣāri 28
snuff 30	rub 28	snuff
ทเีโเ	rubbing 28	nasya 30
indigo 28	pṛṣata	snuff
niryāsa	chital deer 26	nasya 25
extract 31	punarnavā	soma creeper
numbness	hogweed 30	somalatā <mark>27</mark>

son son sph spi spa srā stu svā	kaṇṭaka 30 sphoṭa 30f  ij garlands 25 iva discharge 29, 31 apor mūrcchā 27	tagara indian rose-bay 29 taṇḍulīyaka amaranth 29 tarpaṇa balm 31 three-leaved caper varuṇa 31  udaśvit watered buttermilk 28 upadrava side-effects 31 upasarga affliction 31 uśīra vetiver grass 29 utpala water-lily 27 utsādana dry rub 29 dry rubs 25  vapour bāṣpa 26f, 30	indragopa 27 veṇupatrikā bamboo leaves 29 verbena phañjī 30 vetiver grass uśīra 29 vikṛta distorted 28 voḍhāra bearers 25 vṛṣabha bull 26 water-lily utpala 27 watered buttermilk udaśvit 28 white clitoria śvetā 29 white cutch tree somavalka 31 wild asparagus bahuputrā 31 wood apple	
śyā syī	white clitoria 29 āmā beautyberry 27, 29 mptom liṅga 30	three-leaved caper 31 vāvikṛtā or not distorted 28 velvet-mite	woodrose mūṣikakarṇī 30  yamalā double 28	

# **Todo list**

Cf. Arthaśāstra 1.21.8	25
I'm still unhappy about this verse	28
Mention this in the introduction as an example of the scribe know-	
 ing the vulgate	28
fn about sadyas+	28
Bear's bile instead of deer's bile	29
punarṇṇavā in the N & K MSS	30
śrita for śṛta	30
are? genders?	31
example where the vulgate clarifies that these should be used sep-	
 arately	31
where is cutting with a knife related to removing bile or phlegm	30
maṣī burned charcoal. Find refs	30
find ref	36
Check out these refs	37
or a dual?	41

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