# A Translation of the New Edition of the Suśrutasaṃhitā

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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
	10
	10
Features of the manuscript transmission	12
· · · · · · · · · · · · · · · · · · ·	12
	12
Shart of characters 111111111111111111111111111111111111	
Sūtrasthāna, adhyāya 1	13
Sūtrasthāna, adhyāya 2	<b>2</b> 0
Literature	<b>2</b> 0
	21
Sūtrasthāna, adhyāya 28	29
Kalpasthāna, adhyāya 1	30
	<b>3</b> 0
	30
	30 31
	31 31
[Threats to the King]	31
Uttaratantra, adhyāya 16 (17 in the vulgate)	36
	36
	36
	ء 45
	45
	46

Abbreviations	48
References On digital critical editions	
4	

## The manuscripts and editions used in the vulgate editions by Yādavaśarman Trivikrama Ācārya

Yādavaśarman Trivikrama Ācārya produced three successive editions of the *Suśrutasaṃhitā* with the commentary of Palhaṇa, in 1915, 1931 and 1938. These editions, especially the last, are generally considered the most scholarly and reliable editions of the work, and have been constantly reprinted up to the present day.<sup>2</sup>

The 1915 edition was based on three manuscripts. The 1931 edition used another seven plust two printed editions. For his final 1938 edition, Ācārya used a further three manuscripts.<sup>3</sup> These sources are described as follow, with an overview in Table 1.

#### The sources of the 1915 edition

- 1 Calcutta, Royal Asiatic Society. Covers the *sūtra*, *nidāna*, *śārīra and kalpa sthānas*.
- 2 Jaipur, Pandit Gaṅgādharabhaṭṭaśarman, lecturer at the Royal Sanskrit University. Covers the *cikitsāsthāna* and the *uttaratantra*.
- 3 Bundi, my great friend the royal physician Pam. Śrīprasādaśarman Covers the *uttaratantra*.

## The sources of the 1931 edition

- 1 Vārāṇasī, professor of literature, the great Gaurīnāthapāṭhaka. With the *Nibandhasaṅgraha*. Covers the *nidānasthāna* and *uttaratantra*.
- 2 Ahmedabad. My friend Sva. Vā. Vaidya Raṇachoḍalāla Motīlālaśarman. With the *Nibandhasaṅgraha*. Covers the *śārīrasthāna*.
- 3 From the personal library of my great friend Sva. Vā. Vaidya Murārajīśarman. Extremely old. No commentary. Covers the śārīrasthāna.
- 4 Pune, BORI library. With the *Nibandhasangraha*. Covers the *śārīra-sthāna*.<sup>4</sup>

<sup>2</sup> See also the study of these editions by Klebanov (2021a: §1.2) and Wujastyk (2013: 143–144).

The following account of the sources is paraphrased from Y. T. Ācārya and N. R. Ācārya's own account of his sources (Su 1938: 22).

<sup>4</sup> Not one of the three MSS of the śārīrasthāna described in H. D. Sharma 1939.

- 5 Puṇe, BORI library. With the *Nibandhasaṅgraha*. Complete. With some damaged folia.
- 6 Bombay, Asiatic Society. Incomplete.<sup>5</sup>
- 7 Varanasi, the private library of Vaidya Tryambakaśāstrī. Covers the *cikitsāsthāna*. The variant readings of this MS were compiled by Prof.
- 8 A printed edition together with the commentary *Suśrutasandīpana-bhāṣya* by Professor Hārāṇacandra Cakravārtti. Complete work. This is the 1910 Calcutta edition numbered "t" by Meulenbeld (HIML: IB, 312).<sup>6</sup>
- 9 A printed edition of the first 43 chapters of the *sūtrasthāna*, printed in Bengali script, with the commentaries *Bhānumatī*, *Nibandhasaṅgraha*, edited by Vijayaratnasena and Niśikāntasena. This is the 1886 Calcutta edition numbered "g" by Meulenbeld (HIML: IB, 311).<sup>7</sup>

#### The sources of the 1938 edition

- 1 Gwalior, from the library of my great friend Pam. Rāmeśvaraśāstrin Śukla. Covers the *sūtra*, *nidāna*, *śārīra*, *cikitsā and kalpasthāna*s.
- 2 Bikaner, from the library of the Royal Palace, supplied by Pam. Candraśekharaśāstrin. Contains the commentary *Nyāyacandrikāpañjikāvyākhyā* by Gayadāsa. Covers the *nidānasthāna*. This is almost certainly MS Bikaner Anup 4390.<sup>8</sup>
- 3 Kathmandu, located in the private library of the Royal Guru Hemarāja Śarman. An extremely old palm-leaf manuscript. Readings from this MS were compiled by Paṃ Nityānandaśarman Jośī and sent to Ācārya. Covers from the beginning of the work to the end of the ninth chapter of the *cikitsāsthāna*. The siglum for this manuscript in footnotes was ता for तालपत्रपुस्तके.

Possibly MS Mumbai AS B.I.3 or MS Mumbai AS B.D.109 (Velankar 1925–30: v. 1, # 212 and 213). But both these have the *Nibandhasaṅgraha*. The first covers only the śārīrasthāna; the second may be complete, but Velankar calls it only "disorderly."

<sup>6</sup> Bhaṭṭācārya 1910–7.

<sup>7</sup> Sena et al. 1886–93.

<sup>8</sup> See Dominik Wujastyk, "MS Bīkāner AnupLib 4390." Pandit. <a href="http://panditproject.org/entity/108068/manuscript">http://panditproject.org/entity/108068/manuscript</a>.

				Man	ıuscr	ipts	<b>(•</b> )	and	prii	ıt ed	litioi	$is$ ( $\circ$ )			
edition	1915					1931								193	38
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ka.	•								?		0				
utt.		•							?		0				

Table 1: The sources of Yādavaśarman T. Ācārya's three vulgate editions.

#### **Evaluation**

Estimates show that there are approximately 230 extant manuscript witnesses for the *Suśrutasaṃhitā*. Many of these manuscripts cover only one or more or its chapters. Nevertheless, this is an order of magnitude more evidence than was considered by Ācārya for his vulgate editions.

While the descriptions provided by Ācārya of his source materials seems at first to be moderately comprehensive, Table 1 reveals the real paucity of textual basis for these editions. Apparently, fifteen manuscripts were consulted. However, we quickly find that two of the sources were other people's printed editions, and one of those covered less than a quarter of the work. That reduces the manuscript base to 13 manuscripts. Acārya does not appear to have seen two of the manuscripts at all, having been sent collations prepared for him by others (7 of 1931 and 3 of 1938). Thus, Ācārya's final edition was based on the personal consultation of eleven manuscripts. One of them, no. 6 of 1931, remains mysterious. Only a single manuscript covers the whole of the Suśrutasamhitā, no. 5 of the 1931 edition. Manuscript 1 of 1938 is the next most complete, but it omits the uttaratantra, which comprises a third of the work. Manuscript 1 of the 1915 edition is next, but it still omits both of the longest chapters, and thus offers less than half the work. For the rest, the evidence is spotty, with each part of the work being supported by only between four and eight

<sup>9</sup> This figure is arrived at by summing the MSS mentioned in NCC and in the NGMCP. The real figure could be many scores higher.

manuscripts, excluding the printed editions.

Two sources stand out for their historical importance. The first is no. 3 of 1931, which Ācārya calls "extremely old." It covered the śārīrasthāna only, and unfortunately we know nothing of the later history of this manuscript. The second is no. 3 of 1938, which is one of the important Nepalese manuscripts being considered in the present project. Ācārya's remarks and references to Hemarājaśarman's introduction to the *Kāśyapasaṃhitā* allow us to identify this manuscript as MS Kathmandu NAK 5-333. <sup>10</sup> But that manuscript covers the whole work, not just up to the ninth chapter of the *cikitsāsthāna* as Y. T. Ācārya and N. R. Ācārya stated. <sup>11</sup> Perhaps the editors only received collations for this portion of the manuscript and did not know that it was a witness for the whole work.

#### The 1939 edition

In 1939, Yādavaśarman Trivikrama Ācārya and Nandakiśora Śarman coedited an edition of the *sūtrasthāna* of the *Suśrutasaṃhitā* that was published by the Swami Laxmi Ram ayurvedic centre in Jaipur, and printed at the famous Nirṇayasāgara Press in Mumbai.<sup>12</sup> The text was edited on the basis of the following sources.

#### For the Bhānumatī

- 1. A printed edition. Covered the *Bhānumatī* up to chapter Su.sū.40. The siglum was Ḥ for *mudrita*.<sup>13</sup>
- 2. A manuscript in the India Office Library library provided through

<sup>10</sup> Su 1938: 22; Hemarāja Śarman 1938: 56–57. Discussed by Klebanov (2021*a*: §1.1, 2.3). See also HIML: IIB, 25–41; Wujastyk 2003: 161–169.

<sup>11</sup> Su 1938: 22.

<sup>12</sup> Su 1939. The description of the sources below is based on Yādavaśarman T. Ācārya's remarks in his introduction (pp. 3–4).. See also the remarks on this edition by Klebanov (2021*b*:7). On the Swami Laxmi Ram centre, see Hofer 2007

<sup>13</sup> sena-1893. The manuscript on which this edition was based is probably in the library of the Calcutta Sanskrit College, and described in H. Sastri and Gui 1895–1917: v. X.1, which is not available to me. See also HIML: IB, 495, n. 57 for mention of this manuscript. The reference at Rama Rao et al. 2005: 217 to CSCL accession number 97 in Bengali script may be this manuscript.

चरके—''लाभोपायो हि शस्तानां रसावीनां रसायनम्'' (च.चि. अ. १ पा. १)। पारिशेष्याद्वाजीकरणतन्त्रम् । अवाजिनं वाजीकुर्वेन्ति येन तद्वाजीकरणम् । 'अन्येषामिष दृश्यते' (पा. अ. ६।३।१३७) इति वीर्घलम् । येन वाऽत्यर्थं स्त्रीषु व्यज्यते तद्वाजी-करणम् । तद्वकं चरके—''येन नारीषु सामध्यं वाजिवल्लमते नरः । वजेचाप्यधिकं येन वाजीकरणमेव तत्'' (च. चि. अ. २, पा. ४) इति ॥ ५॥

अथास्य प्रत्येकाङ्गलक्षणसमासः—तत्र, शल्यं नाम विविधत्णकाष्टपाषाणपांशुलोहलोष्टास्थिवालनलपूर्यास्वावदुष्टवणान्तर्गर्भशाल्योद्धरणाथ षष्ट्या विधानैः, यन्त्रश्रास्थ्रसाराग्निप्रणिधानवणविनिश्चयार्थं चः शालाक्यं नामोध्वेजन्नगतानां श्रवणनयनवद्नन्नाणादिसंश्रितानां व्याधीनामुपश्मनार्थः, कायचिकित्सा नाम सेवाङ्मसंश्रितानां व्याधीनां ज्वररक्तपित्तशोषोन्मादापसारक्रष्टमेहातिसारादीनामुपश्मनार्थः, भूतविद्या नाम देवासुरगन्धवेयक्षरक्षःपितृपिशाचनागम्बाद्यपस्प्रचेतसां
शान्तिकर्मविष्ठहरणादिश्रहोपश्मनार्थः, कौमारभृत्यं नाम कुमारमरणधात्रीक्षीरदोपसंशोधनार्थं दुएस्तन्यग्रहसमुत्थिनां च व्याधीनामुपशमनार्थमः, अगदतन्त्रं नाम सप्कीटल्लामूषकादिद्प्रविषव्यक्षनार्थं
विविधविपसंशोगोपश्मनार्थं चः, रसायनतन्त्रं नाम वयःस्थापनमार्थुमेधावलकरणं रोगापहरणसमर्थं चः वाजीकरणतन्त्रं नामाहण्दुएक्षीणशुकरेतसामाप्यायनप्रसादोपचयजनननिसित्तं प्रहर्षणजननार्थं च ॥ ६॥

शस्याङ्गविशेषात्र् शातुं प्रतिरुक्षणं संसेषेणाह—अथासेखादि । एकमेकमङ्गं प्रति रुक्ष-णानां समासः संसेषः प्रत्येकाङ्गरुक्षणसमासः । तृणादीनां, तथा दुष्टवणस्य, तथाऽन्त-गंत(भेशस्य)स्य उद्धरणार्थमिति प्रत्येकमुद्धरणशब्दः संवध्यते । दुष्टवणस्यान्तस्तृणाद्या-हरणार्थमित्यन्ये । षष्ट्या विधानिरिति द्विवणीयोक्तैरपतर्पणावै रक्षाविधानान्तैः; इत्थंभूतन्नक्षणे तृतीया । जतु प्रीवामूलं, जतुण उद्धवमूद्धेजतु । प्राणादीत्यादिप्रहणास्क्रिरःकपालादिप्रह-णम् । उत्तरतन्त्रे प्रतिपादितकमप्राप्त्या ज्वरानन्तरमतीसारः पठितः, तस्यान्ते पाठोऽतिसा-रस्य सर्वाङ्गीणदोपार्व्यवाद् , अन्येपामि तन्मध्यपाठेन सर्वाङ्गीणदोषार्व्यवप्रतिपादना-व्यतिकमं वदन्ति । शान्तिकमं विष्ठहरणादिना प्रहाणां देवादीनामुपशमो यस्तदर्थः; यदि वा ग्रहणं ग्रहो देवानामावेशस्तद्वपशमार्थम् । दुष्टस्तन्यमहसमुत्यितानामिति दुष्टस्तन्यन

Figure 1: A page of the 1939  $Bh\bar{a}numat\bar{\iota}$  edition, showing the variant readings in the footnotes.

१ 'सर्वशरीरावस्थितानी न्याचीनामुपश्चमकरणार्थ ज्वरश्चोफगुरमरक्तिपत्तोनमादापसार-प्रमेदातीसारादीनां च' इति ता. । २ 'देवदानव' इति ता. । ३ 'विनायकनागग्रहोप-सप्टचेतसां' इति ता. । ४ 'विषयेगोपश्मनार्थ' इति ता. । ५ 'शुक्राप्यायन' इति ता. । ६ 'स्णादीनां श्रस्यान्तानां' इति मु. ७ 'अन्ये तु तस्यान्ते पाठेन' इति पा० । ८ 'म्रहणाद्व' इति मु. ।

the Bhandarkar Oriental Research Institute in Pune. <sup>14</sup> This manuscript covered the *Bhānumatī* b up to the end of the *sūtrasthāna*. The siglum was ह for हस्तलिखित. <sup>15</sup>

#### For the Suśrutasamhitā

- A palm leaf manuscript from Hemarājaśarman's personal library.<sup>16</sup>
   The siglum was ता for ताडपत्र.
- 2. His own published edition. The siglum was ड for डल्हणसंमतः पाठः.¹७
- 3. Hārāṇacandra Cakravarti's published edition with his own commentary. 18 The siglum was हा.

#### **Evaluation**

The main innovation of this publication was to present the only surviving part of the commentary on the *Suśrutasaṃhitā* by the great eleventh-century medical scholar Cakrapāṇidatta, namely the *Bhānumatī*.<sup>19</sup> A secondary purpose was to present the text of the *sūtrasthāna* as read in MS Kathmandu NAK 5-333, that had recently been brought to the editors' attention. In their judgement, the Kathmandu manuscript presented a text that was closer to what Cakrapāṇidatta had before him than the text according to Ḍalhaṇa. This was the first *Suśrutasaṃhitā* edition in which Ācārya used sigla to identify the sources from which variant readings were reported, so while it has limitations, it for the first time enables us to get some idea of origins of the text (see Figure 1).

Ācārya noted in his introduction that the manuscripts containing the Dalhaṇa's commentary all came together with the root-text of the *Suśrutasaṃhitā*, and thus the main *Suśrutasaṃhitā* text reflected the readings chosen by Dalhaṇa. But the manuscripts of the *Bhānumatī* contained the commentary alone, without the root-text, and had many explanations

<sup>14</sup> At this time, manuscripts from Britain were routinely lent to scholars in India and vice versa.

MS London BL H. T. Colebrooke 908 (PanditProject #109978, consulted on July 03, 2021).

<sup>16</sup> I.e., MS Kathmandu NAK 5-333.

<sup>&</sup>lt;sup>17</sup> Su 1938. It is noteworthy that Ācārya refers to his 1938 edition as representing "the Dalhaṇa recension."

<sup>18</sup> Bhattācārya 1910-7.

<sup>19</sup> HIML: IA, 374–375 and IB, 495–496.

based on different readings of the root-text than those of Dalhaṇa. In many of these cases it was hard to know what the text that Cakrapāṇidatta had before him. But Ācārya noted that Cakrapāṇidatta had a text before him that had much in common with the text of the Nepalese manuscript.<sup>20</sup>

There is compelling evidence that Cakrapāṇidattas's *Bhānumatī* commentary once covered the whole text of the *Suśrutasaṃhitā*.<sup>21</sup> The loss of the rest of the work ranks amongst the greatest disasters in Āyurvedic literature. Remarkably, the whole *Bhānumatī* may still have existed in the early twentieth century. In 1903, Palmyr Cordier reported being privately informed of a complete copy of the work in a personal manuscript collection in Benares.<sup>22</sup>

<sup>20</sup> Su 1939: 3–4. See discussion by Klebanov (2021*b*:7).

<sup>21</sup> HIML: IA, 375.

<sup>22</sup> Cordier 1903: 332.

## Features of the manuscript transmission

## Palaeographical features

- śrita for śrta.
- ś and s in KL 699.

#### **Chart of characters**

[[[Put a chart from QuickPalaeographer here.]]]

## Sūtrasthāna, adhyāya 1

- 1 Now I shall narrate the chapter on the origin of this knowledge.<sup>23</sup>
- 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.<sup>24</sup>
- "O Lord, distress arose in our minds after witnessing people thrashing about with cries, assailed by different kinds of pain and injury (*vedanā-bhighāta*), 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.<sup>25</sup>
- 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 MSS is highly noteworthy because it removes the outer narrative frame of the Suśrutasaṃhitā (Wujastyk 2013: 148; Klebanov 2021a: § 3.1.2). 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 (2021b) 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, <sup>26</sup> Gandharvas, Yakṣas, demons, deceased ancestors, Piśācas, Vināyakas, <sup>27</sup> 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.<sup>28</sup>
- "[The component] called the discipline of rejuvenation is maintaining youth, bringing about a long life and mental vigour and for curing diseases.
- 16 "[The component] called the discipline of aphrodisiacs brings about

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.

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 N and H include spiders ( $l\bar{u}t\bar{a}$ ) and creepy-crawlies ( $sar\bar{\imath}srpa$ ) in the list, it does seem that MS K had a shorter list, and the vulgate edition adds rodents ( $m\bar{u}sika$ ).

- the 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  $\bar{A}$ yurveda, [surgery] alone is the best because of the quick action of its procedures ( $kriy\bar{a}$ ), its application of blunt instruments, knives, caustics and fire, and it is common to all disciplines.
- "Therefore, [surgery] is eternal, meritorious, leads to heaven, brings renown, bestows a long life, and affords a livelihood.
- "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.].<sup>29</sup>

For, I (i.e., Brahmā) am Dhanvantari, the first god, the remover of old age, pain and death of mortals.

Having understood surgery, the best of the great knowledge systems, I

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

arrived on earth again to teach it here.

In this context, as far as this discipline is concerned, a human being  $(puru \circ a)$  is called an amalgam of the five elements and the embodied soul. This is where procedures  $(kriy\bar{a})$  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.<sup>30</sup> 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".<sup>31</sup> 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.<sup>32</sup>

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 (adhiṣṭhāna) 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  $(oṣadh\bar{\iota}-)$ .<sup>33</sup> There are two types: stationary  $(sth\bar{a}vara)$  and moving

<sup>30</sup> See Wujastyk 2004.

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

<sup>32</sup> Note that four humoral substances are assumed here.

Pāṇini 6.3.132 provides that the final vowel of the noun oṣadhi may be lengthened  $(\to oṣadhi)$  under certain conditions. These conditions require that the word be used

- (jaṅgama).
- Of these, there are four types of stationary ones: fruit trees (*vanaspati*), flowering trees (*vṛkṣa*), herbs (*oṣadhi*) and shrubs (*vīrudh*).<sup>34</sup> Amongst these, the "fruit trees" have fruit but no flowers.<sup>35</sup> 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.<sup>36</sup> Shoots include red velvet mites (*indragopa*) and frogs (*maṇḍūka*).<sup>37</sup>|
- 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)<sup>38</sup> are useful; among the moving remedies pelt (carman), hair, nails, and blood (rudhira) and so forth.
- 34 And earthen products (*pārthiva*) include gold and silver.<sup>39</sup>
- The items created by time  $(k\bar{a}lakrta)$  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 time are the blink of the eye (nimesa), a trice  $(k\bar{a}sth\bar{a})$ , minutes  $(kal\bar{a})$ ,
  - in a Vedic mantra and not in the nominative. Neither condition is met in this passage, yet the author uses the form  $oṣadh\bar{\iota}$ . This form is in fact not uncommon in medical literature as well as in epics, purāṇas, smṛtis, 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; Dalhaṇa on 4.10.12 (Su 1938<sup>2</sup>: 450).
- 39 The flow of concepts in the treatise seems to be interrupted here.

- 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.<sup>42</sup>
- There are two kinds of invasive diseases. Some certainly⁴³ affect (ni√pat) the mind, others the body. Their treatment (kriyā) 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*), flesh (*māṃsa*), ducts (*sirā*), sinews (*snāyu*), bones (*asthi*) and joints (*sandhi*) are meant.

<sup>40</sup> These units are presented at 1.6.5 ( $Su1938^2$ :24) and discussed by Hayashi (2017:§59).

<sup>41</sup> See footnote 29.

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 *Pañjikā*, 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 (*sthāvara*), moving (*jaṅgama*), earthen products (*pārthiva*) and items created by time (*kālakṛta*) (Su 1938<sup>2</sup>: 9a).

<sup>43</sup> The text uses an archaic interjection here, ha.

- 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 (*kriyā*)," 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.<sup>45</sup>
- There are one hundred and twenty chapters in five sections (*adhyāya*). 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:]<sup>48</sup>

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.

<sup>44</sup> 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.

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

<sup>47</sup> 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 (Su 1938: 1.3–4ab) there is indeed a statement that picks up the point about there being 120 chapters.

<sup>48</sup> See footnote 29.

## Sūtrasthāna, adhyāya 2

#### Literature

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

1

## Sūtrasthāna, adhyāya 17

- Now we shall expound the method for piercing the ear.<sup>49</sup>
- One may pierce a child's ears for the purpose of preserving and decorating. On renowned days, half days, hours and constellations during the first half of the sixth or seventh lunar month, the boy who has received a benediction (*kṛtamaṅgala*), blessings pronounced (*svastivācana*)<sup>50</sup> should be placed on the lap of a wet-nurse.<sup>51</sup> Then, while pacifying him and having pulled his ear with the left hand, the physician should use his right hand to pierce the ear straight through at a naturally occurring cleft.<sup>52</sup> For a boy do the right ear first; for a girl do the left one. Use a
- The topic of piercing the ear (karnavyadha) is not discussed in the Carakasaṃhitā (HIML: IB, 326, n. 175), but it is mentioned in some texts that followed the Suśrutasamhitā, such as the Kaśāpyasamhitā (HIML: IIA, 30). The instrument for piercing the ear is described in the Astāngahrdayasūtra 1.26.26 (Ah 1902: 153). Both Dalhana and Cakrapāṇidatta's versions describe the topic of 1.16.1 (Su 1938<sup>2</sup>: 76) as the method of piercing and joining the ear (karnavyadhabandhavidhi), instead of simply 'the method for piercing the ear.' Although it is omitted in the Nepalese's version's opening statement to this chapter, joining the ear (karnabandha) is mentioned in passages 17–20. Also, the Nepalese version omits the opening remark on Dhanvantari in the versions of 1.16.2 known to Cakrapānidatta (Su 1939: 125) and Dalhana (Su 1938<sup>2</sup>: 76). For a discussion of the frame story in the Nepalese version, see SushrutaProject, accessed July 26, 2021. Both commentators state that only the ears of healthy people should be pierced, and he quotes Bhoja to affirm this: 'When piercing the ears of children who are free of disease at these times, their ear flaps and apertures, as well as limbs, increase.' (kāleṣv eteşv adoşāṇām bālānāṃ karṇayor vyadhe | saha gātrair vivardhante karṇapālyaś ca khāni ca || etesv adosānām \ Su 1938<sup>2</sup>: 76, etesu dosānām Su 1939: 125. vyadhe \ Su 1938<sup>2</sup>: 76, vyadhah Su 1939: 125).
- 50 The syntax here is unclear. The expression *svastivācana* may have been a gloss inserted into the text at an earlier period to clarify *maṅgala*. But as it stands, it is not syntactically connected to the rest of the sentence. In the versions of 1.16.3 known to Cakrapāṇidatta (Su 1939: 126) and Dalhaṇa (Su 1938<sup>2</sup>: 76), the words are united in a compound that reads more naturally.
- The versions of 1.16.3 known to Cakrapāṇidatta (Su 1939: 126) and Dalhaṇa (Su 1938<sup>2</sup>: 76) include the option of placing the child in the lap of a man (kumāradharā-nka), the gender of whom is made clear by Dalhaṇa's gloss 'a man who holds the child' (bālagrāhipuruṣa). Also, both versions add that the child should be enticed with toys (krīḍanaka), which according to Dalhaṇa on 1.16.3 (Su 1938<sup>2</sup>: 76) include replica elephants, horses, bulls and parrots (kṛtrimahastyaśvabalīvardaśukādi). Dalhaṇa further mentions that others read 'or by special treats' (bhakṣyaviśeṣair vā) before kṛtrima°.
- 52 The versions of 1.16.3 of Cakrapāṇidatta (Su 1939: 126) and Dalhaṇa (Su 1938<sup>2</sup>: 76) add that this cleft is illuminated by sunshine (*ādityakarāvabhāsita*).

- needle on a thin ear; an awl  $(\bar{a}r\bar{a})$  on a thick one.<sup>53</sup>
- If there is excess blood or pain one should know that it was pierced in the wrong place. The absence of side-effects is a sign that it has been pierced in the right place.<sup>54</sup>
- In this context, if an ignorant person accidentally pierces a duct ( $sir\bar{a}$ ) there will be fever, burning, swelling ( $\acute{s}vayathu$ ), pain, lumps (granthi), paralysis of the nape of the neck ( $many\bar{a}stambh\bar{a}$ ), convulsions ( $apat\bar{a}-naka$ ), headache or sharp pain in the ear.<sup>55</sup>
- 5 Having removed the wick (*varti*) in the hole because of the aggravation of humours or a culpable piercing, <sup>56</sup> one should smear it with a paste of the roots of barley, liquorice, Indian madder (*mañjiṣṭhā*), and the castor oil tree (*gandharvahasta*), thickened with honey and ghee. When it has healed well, one should pierce it again.
- 6 One should treat the properly-pierced ear by sprinkling it with raw sesame oil. After every three days one should apply a thicker wick (*varti*)
- Dalhaṇa on 1.16.3 (Su 1938<sup>2</sup>: 76) clarifies that the awl is a shoe-maker's knife for piercing leather (*carmabhedana*).
- 54 At this point, manuscript KL-699 is missing a folio, so the rest of this chapter is constructed on the basis of witnesses N and H.
- This passage is significantly augmented in 1.16.4 of Cakrapāṇidatta's version (Su 1939: 126) and 1.16.5 of Dalhaṇa's (Su 1938²:77) to outline the specific problems caused by piercing three ducts called kālikā, marmikā and lohitikā. In fact, the order of the problems mentioned in the Nepalese version has been retained in the other versions and divided between each duct. Cakrapāṇidatta's commentary on 1.16.4 (Su 1939: 126) cites several verses attributed to Bhoja on the problems caused by piercing these three ducts in the ear flap: 'Lohitikā, marmikā and the black ones are the ducts situated in the earflaps. Listen in due order to the problems that arise when they are pierced. Paralysis of the nape of the neck and convulsions, or sharp pain arise from piercing lohitikā. Pain and lumps are thought to arise from piercing marmikā. Piercing kālikā gives rise to swelling, fever and burning' (lohitā marmarī kṛṣṇāḥ karṇapāliśritāḥ sirāḥ | tāsāṃ tu vyadhane doṣān anupūrveṇa me śrṇu || manyāstambho 'patānaś ca śūlo vā lohitāvyadhāt | vedanā granthayaś caiva marmarīvyadhanāt smṛtāḥ || kālikāvyadhanāc chotho jvaro dāhaś ca jāyate).
- 56 In addition to these reasons, 1.16.5 of Cakrapāṇidatta (Su 1939: 126–127) and 1.16.6 of Palhaṇa (Su 1938<sup>2</sup>:77) add 'piercing with a painful, crooked and unrecommended needle' (kliṣṭajihmāpraśastasūcīvyadha) and 'a wick that is too thick' (gāḍhataravartitva). Palhaṇa was aware of the reading in the Nepalese version because he notes in his commentary on 1.16.6 (Su 1938<sup>2</sup>:77) that some read 'because of the accummulation of humours' (doṣasamudāyāt) rather than kliṣṭajihmāpraśastasūcīvyadhād gāḍhataravartitvād. On the meaning of samudāya, see Meulenbeld 1992: 1–6 (REVISE REF).

- and sprinkle oil right on it.<sup>57</sup>
- 7 Once the ear is free from humours or side-effects, one should loosen it with a light dilator (*pravardhanaka*) in order to enlarge it.<sup>58</sup>
- 8 A person's ear enlarged in this way can split in two, either as a result of the humours<sup>59</sup> or a blow. Listen to me about the joins (*sandhāna*) it can have.
- 9 Here, there are, in brief, fifteen ways of mending the ear flap. They are as follows: Rim-join (nemīsandhānakaḥ), Lotus-splittable (utpalabhedyaka), Dried Flesh (vallūraka), Fastening (āsaṅgima), Cheek-ear (gaṇḍakarṇa), Take away (āhārya), Ready-Split (nirvedhima), Multi-joins (vyāyojima), Door-hinge (kapāṭasandhika), Half door-hinge (ardhakapāṭasandhika), Compressed (saṃkṣipta), Reduced-ear (hīnakarṇa), Creeper-ear (vallīkarṇa), Stick-ear (yaṣṭīkarṇa), and Crow's lip (kākauṣṭha).

In this context, among these,

"Rim-join" (*nemīsandhānaka*): both flaps are wide, long, and equal.

"Lotus-splittable" (*utpalabhedyaka*): both flaps are round, long, and equal.

"Dried flesh" (vallūraka): both flaps are short, round, and equal.

"Fastening" (āsaṅgima): one flap is longer on the inside.

<sup>57</sup> The manuscripts support the reading *sthūlatarīm* that is either a non-standard form or a scribal error.

Cakrapāṇidatta on 1.16.6 (Su 1939: 127) and Dalhaṇa on 1.16.8 (Su 1938<sup>2</sup>:77) point out that the dilator can be made of wood, such as that of the Prickly Chaff Flower ( $ap\bar{a}marga$ ), the Neem tree (nimba) and the Cotton Plant ( $k\bar{a}rp\bar{a}sa$ ). Dalhaṇa adds that it can also be made of lead ( $s\bar{s}saka$ ) and should have the shape of the datura flower ( $dhatt\bar{u}rapuṣpa$ ).

Dalhaṇa on 1.16.9 (Su 1938<sup>2</sup>:77) notes that the word *doṣa* here can refer to either a humour, such as wind  $(v\bar{a}ta)$ , as we have understood it, or a disease generated from a humour.

The Nepalese version uses the word *sandhāna* to refer to joining a split in an ear flap, which is consistent with the terminology in the verse cited above (8). However, 1.16.10 of Dalhaṇa's version (Su 1938<sup>2</sup>:77) uses the term *bandha* here and at the very beginning of the chapter (i.e., 1.16.1) to introduce the topic of repairing the ear.

For an artist's impression of these different kinds of joins in the ear flap, see Figure 3.2 in Wujastyk 2003: 154.

- "Cheek-ear" (gaṇḍakarṇa): one flap is longer on the outside. 62
- "Take-away" ( $\bar{a}h\bar{a}rya$ ): the flaps are missing, in fact, on both sides.
- "Ready-split" (nirvedhima): the flaps are like a dais ( $p\bar{\imath}tha$ ).
- "Multi-joins" (*vyāyojima*): one flap is small, the other thick, one flap is equal, the other unequal.
- "Door-hinge" (*kapāṭasandhika*): the flap on the inside is long, the other is small.
- "Half door-hinge" (ardhakapāṭasandhika): the flap on the outside is long, the other is small.

These ten options (*vikalpa*) for joins (*sandhi*) of the ear should be bound. They can mostly be explained as resembling their names.<sup>63</sup> The five from compressed (*saṃkṣipta*) on are incurable.<sup>64</sup> Among these, "compressed" has a dry ear canal and the other flap is small. "Reduced ear" has flaps that have no base and have wasted flesh on their edges. "Creeper-ear" has flaps that are thin and uneven. "Stick-ear" has lumpy (*granthita*) flesh and the flaps are stretched thin and have stiff (*stabdha*) ducts (*sirā*). "Crow-lip" has a flap without flesh with compressed (*saṃkṣipta*) tips and little blood. Even when they are bound up, they do not heal because they are hot, inflamed, suppurating (*srāva*), or swollen.<sup>65</sup>

<sup>62</sup> For an artist's impression of this join, see Figure 3.3 in Wujastyk 2003: 155.

<sup>63</sup> Cakrapāṇidatta on 1.16.9–13 (Su 1939: 128–129) and Dalhaṇa on 1.16.10 (Su 1938<sup>2</sup>: 77–78) provide examples of how the names of these joins describe their shapes. For example, the rim-join (*nemīṣandhānaka*) is similar to the join of the rim of a wheel (*cakradhārā*).

<sup>64</sup> Dalhaṇa on 1.16.10 (Su 1938<sup>2</sup>:77–78) mentions that some do not read the statement that only five are incurable, and they understand the causes of unsuccessful joins given below (i.e., heat, inflammation, suppuration and swelling) as also pertaining to the first ten when they do heal.

<sup>65</sup> The version of 1.16.11–13 known to Dalhaṇa (Su 1938<sup>2</sup>:78) has four verses (śloka) at this point that are not in the Nepalese manuscripts. The additional verses iterate the types of joins required for ear flaps that are missing, elongated, thick, wide, etc. All four verses were probably absent in the version of the *Suśrutasaṃhitā* known to Cakrapāṇidatta. He cites the verses separately in his commentary, the *Bhānumatī* (Su 1939: 128–129), introducing each one as 'some people read' (*ke cit paṭhanti*). However, in Trikamajī Ācārya's edition of the *Sūtrasthāna* of the *Bhānumatī*, the root text is

A person wishing to perform any of these joins should therefore gather together the supplies prepared according to the recommendations of the 'Preparatory Supplies' chapter. And in particular, he should gather decanted liquor (surāmaṇḍa), milk, water, fermented rice-water (dhānyāmla), and powdered earthenware crockery (kapālacūrṇa).

Next, he should prepare the woman or man, who have had the ends of their hair tied up, have eaten lightly, and are firmly supported by qualified attendants.

Then, he should ready the bindings (bandha) and carry out the procedure with cutting (chedya), splitting (bhedya), scarification (lekhya), or piercing (vyadhana). Then, he should examine the blood of the ear to know whether it is tainted (duṣṭa) or not. If it is tainted by wind, the ear should be bathed with fermented rice-water (dhānyāmla) and water; if tainted by choler, then cold water and milk should be used; if tainted by phlegm, then decanted liquor (surāmaṇḍa) and water should be used, and then he should scarify it again.

Then, arranging the join in the ear so that it is neither proud, depressed, nor uneven, one should make the join. Having seen that the blood has stopped, one should anoint it with honey and ghee, bandage each ear with cotton (picu) and gauze (prota), and bind it up with a thread, neither too tightly nor too loosely. Then, the earthenware powder should be sprinkled on, and medical advice ( $\bar{a}c\bar{a}rika$ ) given. And he should supplement with food as taught in the 'Two Wound' chapter.<sup>67</sup>

- One should avoid rubbing, sleeping during the day, exercise, overeating, sex, getting hot by a fire, or the effort of speaking.
- One should not make a join when the blood is too pure, too copious, or too thin.<sup>68</sup> For when the ear is tainted by wind, then it is obstructed by blood (raktabaddha), unhealed and will peel. When tainted with choler, is becomes pinched ( $g\bar{a}dha$ ), septic ( $p\bar{a}ka$ ) and red. When tainted

largely identical to the one commented on by Palhana ( $Su\ 1938^2$ ), even in instances like this where Cakrapānidatta's commentary indicates that he was reading a different version of the *Suśrutasamhitā*.

<sup>66</sup> Suśrutasaṃhitā 1.5 (Su 1938<sup>2</sup>: 18–23).

<sup>67</sup> Suśrutasaṃhitā 4.1 (Su 1938<sup>2</sup>: 396–408).

<sup>68 1.16.17</sup> of Dalhaṇa's version (Su 1938<sup>2</sup>:79) reads "impure" for the Nepalese "too pure," which would appear to make better medical sense. Emending the text to nāśuddha- for nātiśuddha- in the Nepalese recension would yield the same meaning as the vulgate.

- by phlegm, it will be stiff (stabdha) and itchy. It has excessively copious suppuration ( $sr\bar{a}va$ ) and is śopha (puffed~up). It has it has a small amount of wasted ( $ks\bar{\imath}na$ ) flesh and it will not grow.<sup>69</sup>
- When the ear is properly healed and there are no complications, one may very gradually start to expand it. Otherwise, it may be inflamed (saṃrambha), burning, septic or painful. It may even split open again.
- Now, massage for the healthy ear, in order to enlarge it. One should gather as much as one can the following: a monitor lizard  $(godh\bar{a}^{70})$ , scavenging (pratuda) and seed-eating (viskira) birds, and creatures that live in marshes or water,<sup>71</sup> fat, marrow, milk, and sesame oil, and white mustard oil.<sup>72</sup> Then cook the oil with an admixture  $(prativ\bar{a}pa)$  of the following: purple calotropis  $(arka^{73})$ , white calotropis  $(alarka^{74})$ , country mallow  $(bal\bar{a}^{75})$ , 'strong Indian mallow'  $(at-ibal\bar{a}^{76})$ , country sarsaparilla  $(anant\bar{a}^{77})$  beggarweed  $(vid\bar{a}ri^{78})$ , liquorice (madhuka), hornwort  $(jalas\bar{u}ka \rightarrow jalan\bar{u}lik\bar{a}^{79})$ , so items having the 'sweet'
- 69 In his edition of *Suśrutasaṃhitā*, Ācārya (Su 1938<sup>2</sup>: 79 n. 1) includes in parentheses the following treatment for these conditions, which according to a footnote is not found in the palm-leaf manuscript he used: 'One should sprinkle it with raw sesame oil for three days and one should renew the cotton bandage after three days' (āmatailena trirātraṃ pariṣecayet trirātrāc ca picuṃ parivartayet).
- 70 Varanus bengalensis, Schneider (Daniel 1983:58)
- 71 For such classifications, see **zimm-jung** and **smit-clas**.
- 72 1.16.19 of Þalhaṇa's version (Su 1938<sup>2</sup>:79) includes ghee (*sarpis*). However, Þalhaṇa's remarks on 1.16.19 and Cakrapāṇidatta's on 1.16.18 (Su 1939: 130) indicate that they knew a version (perhaps, similar to the Nepalese) of this recipe that does not have ghee. Þalhaṇa also notes that others simply read four oils, beginning with fat and without milk, whereas Cakrapāṇidatta says some read that it is made with four oils and milk.
- 73 Calotropis gigantea, (L.) R. Br. (ADPS 52, AVS 1.341, NK #427, Potter 57, ID 306)
- 74 Calotropis procera, (Ait.) R. Br. (NK #428, GIMP 46b, ID 306)
- 75 Sida cordifolia, L. (ADPS 71, NK #2297)
- 76 Abutilon indicum, (L.) Sweet; Sida rhombifolia, L.? (NK #11, IGP ,4 1080; NK #2300)
- 77 Hemidesmus indicus, (L.) R. Br. (ADPS 434, AVS 3.141–5, NK #1210)
- 78 Desmodium gangeticum (L.) DC (Dymock 1.428, GJM 602, cf. NK #1192; ADPS 382, 414 and IMP 2.319, 4.366 are confusing)
- 79 Ceratophyllum demersum, L. (IMP 2371, AVS 2.56, IGP 232)
- 80 This name is not certain: in fact, Dalhana on 1.16.19 (Su 1938<sup>2</sup>:79) notes that some people interpret it as a poisonous, hairy, air-breathing, underwater creature.

- savour ( $madhuravarga^{81}$ ) and 'milk flower' ( $payasy\bar{a} \rightarrow vid\bar{a}r\bar{\imath}^{82}$ ). This should then be deposited in a well-protected spot.
- The wise man who has been sweated should rub the massaged (*mardita*) ear with it. Then it will be free of complications, and will enlarge properly and be strong.<sup>84</sup>
- 16 Ears which do not enlarge even when sweated and oiled, should be scarified at the edge of the hole (apānga), but not outside it.
- In this tradition, experts know countless repairs to ears. So a physician who is very intent (*suniviṣṭa*) on working in this way may repair (*yojayed*) them.
- 18 If an ear has grown hair, has a nice hole, a firm join, and is strong and even, well-healed, and free from pain, then one can enlarge it slowly.
- 19 Now I shall describe the proper method of repairing a severed nose. First, take from the trees a leaf the same size as the man's nose and hang it on him.
- Next, having cut a slice of flesh  $(vadhra)^{85}$  with the same measurements off the cheek, the end of the nose is then scarified. Then the diligent
- 81 The items which exemplify the 'sweet' savour (*madhuravarga*) are enumerated at SS.1.42.11.
- 82 Pueraria tuberosa (Willd.) DC. (ADPS 510, IMP 1.792f., AVS 4.391; not Dymock 1.424f. See GJM supplement 444, 451, IMP 1.187, but IMP 3.1719 = Ipmoea mauritiana, Jacq.)
- 83 The version of 1.16.19 known to Dalhaṇa (Su 1938<sup>2</sup>:79) adds several ingredients to this admixture, including apāmārga, aśvagandhā, kṣīraśuklā, madhuravarga and payasyā. Also, it has vidārigandhā instead of vidāri. When commenting on this passage, Dalhaṇa on 1.16.19 (Su 1938<sup>2</sup>:79) notes that some do not read madhuravarga and payasyā. Therefore, there were probably other versions of this recipe with fewer ingredients, as seen in the Nepalese version.
- 84 For these aims (i.e., healing and enlarging the ear), the text known to Dalhana (Su 1938<sup>2</sup>:79) has an additional verse and half describing an ointment for rubbing the ear (*udvartana*) and sesame oil (*taila*) cooked with various medicines for massage. Cakrapāṇidatta (Su 1939: 131) does not comment on these verses, nor verse 15 of the Nepalese version, and so the version of the *Suśrutasaṃhitā* known to him may not have included them.
- 7 The version of 1.16.28b known to Dalhana (Su 1938<sup>2</sup>:81) reads bound, connected (*baddham*) instead of slice of flesh (*vadhra*). This is a critical variant from the surgical point of view. If the slice remains connected, it will have a continuing blood supply. This is one of the effective techniques that so astonished surgeons witnessing a similar operation in Pune in the eighteenth century (see Wujastyk 2003: 67–70).
- 86 Or 1.16.20 could be mean, '... off the cheek, it is fixed to the end of the nose, which has been scarified'. Unfortunately, the Sanskrit text is not unambiguous on the important

- (*apramatta*) physician, should quickly put it back together (*pratisandhā*-) so that it is well joined (*sādhubaddha*).
- Having carefully observed that it has been well sown up, two tubes should be fixed in place. Then, having lifted them up,<sup>87</sup> the powder of sappanwood (*pattāṅga*<sup>88</sup>),<sup>89</sup> liquorice (*yaṣṭīmadhuka*<sup>90</sup>), and Indian barberry (*añjana*<sup>91</sup>) should be applied to it.

añjana

- The wound should be covered properly with cotton (picu) and should be moistened repeatedly with sesame oil. Ghee should be given to the man to drink. His digestion being complete, he should be oiled and purged in accordance with the instructions specific to him.<sup>92</sup>
- And once healed and really come together, what is left of its flesh (*vadhra*) should then be trimmed. If it is reduced (*hīna*), however, one should make an effort to stretch it, and one should make its overgrown flesh smooth.

point of whether or not the flap of grafted skin remains connected to its original site on the cheek.

<sup>87</sup> The Sanskrit term *unnāmayitvā* in 1.16.21 is non-Pāṇinian.

<sup>88</sup> Caesalpinia sappan, L. (AVS 1.323, IMP 2.847f.)

<sup>89</sup> For pattāṅga there are manuscript variants pattrāṅga (MS H) and pattaṅga (N). Also, MS K (f. 14r:1) has pattrāṅga in a verse in 1.14 (cf. 1.14.36, Su 1938²:66). In the text known to Dalhaṇa (Su 1938²:81), 1.16.29 has pataṅga, and this term is propagated in modern dictionaries.

<sup>90</sup> Glycyrrhiza glabra, L. (AVS 3.84, NK #1136)

<sup>91</sup> Berberis aristata, DC. (Dymock 1.65, NK #685, GJM 562, IGP 141)

<sup>92</sup> The expression *svayathopadeśa* is ungrammatical but supported in all available witnesses.

## Sūtrasthāna, adhyāya 28

Thus, living creatures and their strength, complexion (*varṇa*) and energy (*ojas*) are rooted in food. That (food) depends on the six flavours (*rasa*). Thus, the flavours depend on substance (*dravya*), and substances depend on medicinal herbs. There are two kinds of them (herbs): stationary and mobile.<sup>93</sup>

<sup>93 1.1.28 (</sup>Su 1938<sup>2</sup>:7), tr. P. V. Sharma 1999–2001: I, 21.

## Kalpasthāna, adhyāya 1

#### 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>94</sup> Translations of this chapter since 2000 have appeared by Wujastyk (2003: 131–139) and P. V. Sharma (1999–2001: 3, 1–15).

More recently, a discussion of the fourth chapter of this section in the light of the Nepalese manuscripts was published by Harimoto. <sup>95</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, <sup>96</sup> had been adjusted textually to smooth over inconsistencies, and gave insights into these editorial processes.

#### 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>97</sup> dated to 1165 ce noted in Bendall's chart of Nepalese letter-numerals Bendall 1883: Lithograph V, after p. 225

<sup>94</sup> HIML: IA, 289-290.

<sup>95</sup> Harimoto 2011: 101–104.

<sup>96</sup> The two editions Su 1938 and Su 1889, that Harimoto noted present identical texts.

<sup>97</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. 98
  - 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>99</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>100</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. 101
- 8–11 He should employ a doctor in his kitchen (*mahānasa*) who is respected
  - 98 MS H adds in the margin अथ खलु वत्स सुश्रतः "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 1938²: 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.
  - 99 This is a quite different statement from the vulgate (Su1938: 559) that has Dhanvantari as the teacher, and calls him the Lord of Kāśī (kāśipati). 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."
  - 100 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.
  - 101 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, 102 have clean utensils and be staffed by men and women who have been vetted. 103
- 17–18ab The chefs, bearers ( $vodh\bar{a}ra$ ), 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>104</sup>
- 18cd–19ab An expert knows people's body language (*iṅgita*) through abnormalities in voice, movement and facial expression. He should be able to identify a poisoner by the following signs.

Cf. Arthaśāstra 1.21.8.

- 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>105</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 (abhyanga) 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.
    - Flies or crows or other creatures that eat a poisonous morsel (*bali*) served from the king's portion, die on the spot.

<sup>103</sup> Verses detailing the ideal staff are omitted in the Nepalese manuscripts. Cf Su 1938: 560; Wujastyk 2003: 132.

<sup>104</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>105</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<sup>2</sup>: 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>106</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>107</sup> The chital deer sheds tears and the monkey releases excrement.<sup>108</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. 109
- 35, 36cd In such a case, an errhine and a collyrium that are costus, lāmajja grass (*lāmajja*), spikenard (*nalada*) and honey (*madhus*); a paste of sandalwood on the heart may also provide relief. 111
  - 106 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<sup>2</sup>: 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<sup>2</sup>:223), 6.31.154 (Su 1938<sup>2</sup>:684) and (6.58.44 (Su 1938<sup>2</sup>:790) respectively).
  - 107 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."
  - 108 MS 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 KL 699 is hard to read at this point.
  - 109 "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)."
  - 110 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.
  - 111 Singh and Chunekar (1972: 350) discussed the difficulties in identifying लामज्ज, 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). 112
- 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  $(\acute{s}le਼;man)$  dribbles out. In such a case, he should apply the treatment prescribed above for vapour, and what will be stated below under "toothbrush twigs".
  - 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>115</sup>
  - In this case, vomiting must quickly be induced using the fruits of emetic nut (madana), bitter gourd  $(al\bar{a}bu)$ , red gourd  $(bimb\bar{i})$ , and luffa  $(ko\bar{s}i$ -

neuter form मधुस् "sweetness" of the Nepalese manuscripts is less common than neuter मधु "honey, sweetness, liquorice."

- 112 "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. Dalhana'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. Dalhana 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. Dalhana 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).
- 113 The word अष्ठीला is normally feminine. The Nepalese manuscripts read it with a short अ- ending. Gayadāsa noticed that some manuscripts read अष्ठील with a short -अ ending (MS Bikaner RORI 5157, f. 5v:7–8) and Dalhaṇa reproduced his observation. The vulgate reading "from his mouth (चास्यात्)" is more obvious (*lectio facilior*), but is not attested in the Nepalese manuscripts.
- 114 Poisoned toothbrushes are discussed in verses 48 ff. below.
- 115 I translate मूर्च्छा in the light of the metaphors discussed by Meulenbeld (2011), that include thickening and losing consciousness.

- $tak\bar{\imath}$ ), 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, the dry fruit of indigo  $(n\bar{\imath}lin\bar{\imath})$ , purgation with ghee and the 'slow-acting poison antidote  $(d\bar{\imath}\bar{\imath}vi\bar{\imath}\bar{a}ri)$ ' should be drunk with honey and curds (dadhi).<sup>116</sup>
- When poison is in any liquid substances such as milk, wine or water, there are various streaks, and foam and bubbles form.
- 45 Also, no reflections are visible, or if they can be seen, they are ill-formed, fractured, tenuous, or distorted.

  In such a case, the fruit of the indigo

<sup>116</sup> The 'slow-acting poison' is discussed at 5.2.25 ff. (Su 1938<sup>2</sup>: 565).

## Uttaratantra, adhyāya 16 (17 in the vulgate)

#### Literature

Survey of this chapter and the existing research on it to 2002: HIML: IA, 305–306.

History of couching in India: Scott 1817; Breton 1826; Jack 1884; Hendley 1895; Elliot 1918; Parshwanath Shastri 1940; Deshpande 1999; 2000; Wujastyk 2019; Leffler et al. 2020, wuja-root3.

#### **Translation**

- 1 Now I shall explain the counteraction (*pratiṣedha*) of diseases located in the pupil (*dṛṣṭi*).
- There are three curable  $(s\bar{a}dhya)$ , three incurable  $(as\bar{a}dhya)$ , and six mitigatible  $(y\bar{a}pya)$  diseases located in peoples eyes. Among these, three are curable  $(s\bar{a}dhya)$ . Amongst these three, the remedy  $(prat\bar{\imath}k\bar{a}ra)$  has been stated for the one called "seeing smoke  $(dh\bar{\imath}madarsin)$ ".
- 3–5ab When the eye is inflamed (vidagdha) by bile and when it is inflamed by phlegm, one should apply the method for removing bile and phlegm, using nasal medicines (nasya), irrigation (seka), application of collyrium ( $a\tilde{n}jana$ ), liniment ( $\bar{a}lepa$ ), and medicines cooked in a crucible ( $putap\bar{a}ka$ ), together with a balm (tarpana), <sup>118</sup> but not cutting with a blade ( $\hat{s}astraksata$ ). <sup>119</sup>

One should drink ghee (sarpis) prepared with the three fruits ( $triphal\bar{a}$ ) and in the first [case where the problem is bile], and prepared with turpeth (traivrta) in the latter [case, of phlegm].

And ghee prepared with tilvaka (*tailvaka*) is wholesome in both cases, or else aged ghee on its own.

5cd–7ab In a collyrium, these four compounds (*yoga*) are beneficial in both cases:

 ochre (gairika), Sind salt (saindhava), long pepper (kṛṣṇā) and the black soot (maṣī) from cow's teeth; where is cutting with a knife related to removing bile or phlegm.

maṣī burned charcoal. Find

<sup>117</sup> This disease and its cure are described earlier (SS.6.7.39 and SS.6.10.16 ( $\frac{\text{Su 1938}^2}{\text{609}}$  and 614) respectively). The latter part of this verse is hard to construe and the text here may have been altered at an early period.

<sup>118</sup> These therapies are described in SS.6.18 ( $Su 1938^2$ : 633–640).

<sup>119</sup> Dalhaṇa interprets this as blood-letting ( $sir\bar{a}vedha$ ), which is discussed in SS.1.14 (Su 1938<sup>2</sup>).

- Cow's flesh (*gomāṃsa*), black pepper (*marica*), siris (*śirīṣa*) and red arsenic (*manaḥśilā*);
- stalk (vrnta) from a wood apple (kapittha) with honey (madhu); 120
- or the the fruits of the velvet bean (*svayamgupta*).
- 8 The physician should make a collyrium with ground up metal (*ku-pyaka*), <sup>121</sup> Asoka tree (*aśoka*), Sal tree (*śālā*), mango (*amra*), beautyberry (*priyaṃgu*), Indian lotus (*nalina*), blue lotus (*utpala*), together with harenu (*hareṇu*), emblic (*āmalaka*), myrobalan (*pathyā*), long pepper (*pippali*). It should be combined with ghee and honey (*kṣaudra*).
- 9–10 Also, when bile and phlegm have developed, the physician should apply harenu (harenu) with the expressed juice (svarasa) of the flowers from mango (amra) and Jambu (jambū) trees.

  Then this collyrium, matured (vipakva) with ghee and honey (kṣaudra), should then be applied.
- Filaments ( $ki\tilde{n}jalka$ ) of Indian lotus (nalina) and blue lotus (utpala), with ochre (gairika), and the juice of cow-dung ( $go\acute{s}akrt$ ) are a collyrium in the form of a pill ( $gu\acute{q}ik\bar{a}$ ). This is good for both day and night blindness.
- 11cd–12ab Elixir-salve (*rasāñjana*), honey (*kṣaudra*), ghee, scramberry (*tālīśa*), together with gold and ochre, with the juice of cow-dung (*gośakṛt*) are for an eye afflicted with bile.
  - Alternatively, wise physician should first grind together elixir-salve  $(\hat{sita})$  and stibnite  $(sauv\bar{t}raka)$ , infused  $(bh\bar{a}vita)$  with the blood of birds and animals (rasa). Then he mixes it with the bile of a tortoise or with extract of rohu carp (rauhita). It should always be used with powdered collyrium to quell the bile.
    - Thus, a collyrium of white teak ( $k\bar{a}r\acute{s}mar\bar{\iota}$ ) flowers, liquorice (madhuka), tree turmeric ( $d\bar{a}rv\bar{\iota}$ ), lodh tree (lodhra) and elixir salve ( $ras\bar{a}\tilde{n}jana$ ) is always good as a collyrium in this case.
    - Alternatively, for those who cannot see during the day, this pill ( $gu-dik\bar{a}$ ), with sandalwood, is recommended: salt ( $nad\bar{\imath}ja$ ), conch shell and

<sup>120</sup> Wood apple (कपित्थ) in this verse is ablative singular or accusative plural, neither of which construe obviously.

<sup>121</sup> A metal other than gold or silver, according to V. Jośī and N. H. Jośī 1968: 1.217. Perhaps lead, which is used in making contemporary collyrium.

<sup>122</sup> This is Palhaṇa's preferred interpretation of rasa "juice" in this context. He also notes that some take elixir-salve ( $s\bar{\imath}ta$ ) to be camphor.

- the three spices, collyrium, realgar ( $manahsil\bar{a}$ ), the two turmerics (ra-jana)<sup>123</sup> and liver extract (yakrdrasa).<sup>124</sup>
- One should grind up kohl (*srotoja*),<sup>125</sup> and Sind salt (*saindhava*) and long pepper and also harenu (*harenu*). Such wicks with goats urine are good in a collyrium for night blindness (*kṣaṇadāndhya*).
- 17–18ab Alternatively, in such a case, grind together Indian sarsaparilla ( $k\bar{a}l\bar{a}$ - $nus\bar{a}riva$ )<sup>126</sup> long pepper, dried ginger ( $n\bar{a}gara$ ) and honey, the leaf of the scramberry ( $t\bar{a}l\bar{i}sapatra$ ), the two turmerics (rajana), a conch shell and liver extract (yakrdrasa). Then shade-dried wicks take away illness (ruj).
- 18cd–19ab Wicks made of red arsenic (*manaḥśilā*), chebulic myrobalan (*abhayā*), the three spices (*vyoṣa*). Indian sarsaparilla (*sāriva*), cuttlefish bone (*samudraphena*), combined with goat's milk are good.
- One should cook a honey collyrium (*kṣaudrāñjana*) either in the juices of cow's urine (*gomūtra*), and bile, spirits (*madirā*), liver (*yakṛt*), and emblic (*dhātrī*) or else in the juice of the liver (*yakṛt*) of something different, or else with the extract of the three fruits (*triphalā*). One of these should be mixed with cow urine, ghee and cuttle fish (*arṇavamala*)<sup>127</sup> with long pepper, honey and box myrtle (*kaṭphala*). It is placed in sea salt and stored in a bamboo tube.
  - One should cook the liver of a sheep, the ghee of a goat, with long pepper and Sindh salt, honey and the juice of emblics. Then one should store it properly in a catechu box. Prepared thus, the honey collyrium is good.
    - Alternatively, a collyrium that is harenu (harenu) mixed with long pepper ( $m\bar{a}gadh\bar{\iota}$ ), the bone and the marrow of a goat, cardamom ( $el\bar{a}$ ) and

<sup>123</sup> Turmeric (Curcuma longa *Linn*.) and tree turmeric (Berberis aristata DC). The term *rajana* is unusual; the normal term is *rajanī*. *Rajana* occurs in *Suśrutanighaṇṭu* 158 in the sense of Ferula asafoetida, Linn.

<sup>124</sup> This verse appears as no. 27 in the vulgate.

<sup>125</sup> Glossed by Palhaṇa as a kind of collyrium. Cf. Nadkarni 1954: 2.M13 and P. V. Sharma 1982: 197–198

<sup>126</sup> There are two forms of *sārivā* mentioned widely in Āyurvedic literature, the white and the black. Ideas on the identity of the black form are particularly fluid. See Sivarajan and Balachandran (1994: 434–438) for a clear discussion.

<sup>127</sup> At SS 6.12.31, Dalhaṇa glossed *arṇavamala* as cuttlefish bone (*samudraphena*). It may be worth considering whether the unusual term *arṇavamala* "ocean-filth" might refer to ambergris.

- liver, together with liver extract, is good for eyes afflicted by phlegm. 128
- Over a fire, one should cook the liver (yakṛt) of a monitor lizard (godhā) prepared with entrails (antra) and stuffed with long pepper (māgadhi). As is well known, liver (yakṛt) which is used (niṣevita) with collyrium certainly destroys night blindness.
- 25 After preparing both a spleen ( $pl\bar{t}han$ ) and a liver on a spit, one should eat them both with ghee and oil.<sup>129</sup>
- As is well known, there are six diseases that can be alleviated (*yāpya*); in those cases (*tatra*) one should release the blood by bloodletting. And for the sake of wellbeing one should also purge using aged ghee combined (*upahita*) with purgative aids (*aṅga*).
  - When an eye-disease is caused by wind (pavanodbhava) they say that castor oil (pañcāṅgulataila) mixed with milk is good. In the case of diseases of blood (śonita) and bile (pitta), one should drink ghee with the three fruits; it is particularly cleansing. In the case of phlegm, a purgative by means of turpeth (trivṛt) is recommended. In the case of all three humours, sandal (sugandhi) in oil is prepared with it (turpeth).
    - 28 In cases of partial blindness (*timira*), aged ghee is recommended. It is good if it is kept in an iron vessel.
- 28cd–29ab One should know that ghee with the three mylobalans is always good, and it is made with what is called periploca of the woods (meṣaviṣāṇa).

or "lesser" or "Malabar" cardamom, Elettaria cardamomum, Maton & White. In contrast, the "greater" cardamom is Amonum subulatum (that Watt discussed on p. 65) that is commonly used as an inferior substitute for *E. cardamomum*. Singh and Chunekar (1972: 467 f) provided an interesting discussion of hareņu, noting that the term refers to two substances, first the satīna pulse (Pisum sativum, Linn.), and second an unknown fruit such as perhaps a Vitex. They noted, "None of the text commentators have attempted to disclose the nature of its source plant," although Dalhaṇa described it as aromatic and identical to reṇukā (SS.ci.2.75).

<sup>129</sup> We read the locative as if an instrumental; if the locative were intended then it would be the spit that would be coated with oil and ghee.

<sup>130</sup> Palhana says that the unexpressed topic of this recipe is partial blindness (*timira*).

<sup>131</sup> Blood-bile (*śonita-pitta, rakta-pitta*) is a widely-recognized disease in ayurveda, but the compound here is definitely dual, which rules out that interpretation. One would expect blood-bile because the previous verse

<sup>132</sup> The expression "the fragrant one in oil (*tailasugandhi*)" is puzzling. The word *sugandhi* has different referents in the *Nighaṇṭu* literature but is not common as a noun in the extant literature. "Sandal" is just one of its possible meanings.

- A man who is suffering from partial blindess should lick the finely-ground three fruits mixed with ghee off his hand  $(sap\bar{a}na)$ .<sup>133</sup>
- 29cd Alternatively, someone afflicted by phlegm should apply them (the three fruits) mixed with oil and steeped (*pragāḍha*) in honey.
  - The very best oil, well-cooked with a decoction of cow-dung, is good in cases of partial blindness, taken as an errhine.

    In cases caused by bile, ghee by itself is good, as is oil when it arises from wind and blood.
  - And in the case of wind one should apply turpeth (trivrt) based on strong mallow  $(atibal\bar{a})$ , and country mallow  $(bal\bar{a})$  in an errhine (nasya). 134
    - Ghee which has been extracted from milk cooked with the meat of aquatic creatures and those from marshlands should be prescribed.
  - tAn enclosed roasting (puṭākhya) with Sindh salt and the product of the meat of a carnivore (kravyabhuj) and a deer (eṇa), is combined with honey and ghee. 135
    - Fat  $(vas\bar{a})$  from a horse, a vulture, a snake, and a cock  $(t\bar{a}mrac\bar{u}da)$ , combined with mahua  $(madh\bar{u}ka)$  is always good in a collyrium. †136
  - Having prepared (*niṣevita*) a collyrium made of kohl (*srotas*) and gradually combine it with juices (*rasa*), milk and ghee.<sup>137</sup>
  - "Off his hand" translates the adverbial *sapāṇam*, an unusual word. Dalhaṇa reproduces a reading close to the Nepalese recention but says that Jejjaṭa rejects it and so he also does (Su 1938: 627).
  - "Based on" translates -āśrita "depending on" which does not construe easily here. The vulgate has śṛṭa "cooked" which makes easier sense but is not supported by the Nepalese MSS.
  - 135 Dalhaṇa notes (Su 1938<sup>2</sup>: 628a) that puṭāhvaya (see verse 35 below) is a synonym for puṭapāka, and that the process is described in the Kriyākalpa chapter, i.e., SS.6.18.33–38 (Su 1938<sup>2</sup>: 635). On the puṭa process in the Suśrutasaṃhitā, which is earlier and different than that of rasaśāstra literature, see the discussion by Wujastyk (2019: 83):
    - The term 'enclosed roasting' (puṭapāka) does occur in the Suśrutasaṃhitā in the context of eye treatments, but designates a method of obtaining juice from substances by wrapping them in leaves pasted with earth and cooking the bolus on charcoal to finally extract a juice.
  - 136 This verse contain irresolvable difficulties. There are no significant variants in the Nepalese MS transmission, but the text is ungrammatical. The vulgate reads substantially differently but we have nevertheless made some emendations in line with it and read the verse as two sentences.
  - 137 Dalhana specifies that the juices are meat soups of various animals (Su 1938<sup>2</sup>: 628).

- For thirty days, this collyrium is put in the mouth of a black snake that is covered with kuśa grass (kuśa).
- Next, a collyrium that is milk containing long pepper  $(m\bar{a}gadh\bar{\iota})$ , lye  $(k \bar{s}araka)$  and Sindh salt (saindhava) that has been repeatedly prepared with the mouth of a black snake, is good in the case of bloodshot blindness  $(r\bar{a}gin\ timira)$ .<sup>138</sup>
- They say that ghee may be produced from that and combined with sweet herbs is good as an errhine for eye-diseases caused by bile. And here, a balm (*tarpaṇa*) is good that is a combination that is the flesh of wild animals taken hot (*puṭāhvaya*).<sup>139</sup>
- 36 And realgar (manaḥśilā) mixed with elixir salve (rasāñjana) and honey is a liquid collyrium (dravāñjana) which is, in this case, combined with mahua (madhūka).<sup>140</sup>

  Alternatively experts on this say that finely ground blue vitriol (tuttha)
  - Alternatively, experts on this say that finely ground blue vitriol (*tuttha*) extracted from a gold mine is the "same collyrium (*samāñjana*)".<sup>141</sup>
- Conch mixed with equal parts of sheep's horn and stibnite  $(a\tilde{n}jana)$  removes the impurity of the glassy opacity  $(k\bar{a}ca)$  because of the application of collyrium  $(a\tilde{n}jana)$ .<sup>142</sup>
  - The extracts (rasa) produced from aflame of the forest ( $pal\bar{a}\acute{s}a$ ), Rohīta tree ( $roh\bar{\imath}ta$ ), <sup>143</sup> mahua ( $madh\bar{\imath}ka$ ), ground with the supernatant layer (agra) of the spirits (madira) is applied.
- Alternatively, one should cook an errhine with cuscus grass (*uśīra*), lodh tree (*lodhra*), the three fruits (*triphalā*), beauty berry (*priyaṅgu*) to pacify eye diseases caused by phlegm.<sup>144</sup>

<sup>138</sup> Dalhana describes this blindness as a type of  $k\bar{a}ca$  disease caused by wind (Su 1938: 628). The expression "bloodshot blindness" is an attempt to capture the idea of a blind eye that is dyed or coloured (not colour-blindness). This verse is quite different from the vulgate and also syntactically challenging.

<sup>139</sup> The expression taken hot (puṭāhvaya) is a guess.

<sup>140</sup> The expression liquid collyrium (*dravāñjana*) is only known from Dalhaṇa's comments on SS.6.17.11ab (Su 1938<sup>2</sup>: 626). The recipe in the present collyrium is different from that discussed by Dalhaṇa.

<sup>141</sup> The expression "same collyrium (samāñjana)" is a hapax legomenon glossed inexplicably by Dalhana as "a collyrium with an equal amount of fermented barley" (tulyasauvīrāñjana) (Su 1938²: 628).

<sup>142</sup> The ablative "from collyrium" is hard to construe, but Dalhana uses this term and phrase in his commentary on 6.17.41ab (Su  $1938^2:629$ ).

<sup>143</sup> Probably Soymida febrifuga A. Juss.

<sup>144</sup> Palhaṇa invokes a general rule  $(paribh\bar{a}s\bar{a})$  to indicate that this mixture should be cooked with sesame oil.

- One should apply smoke of the bark of embelia ( $vida\dot{n}ga$ ), velvet leaf ( $p\bar{a}th\bar{a}$ ), white siris ( $kinih\bar{\iota}$ ), and desert date ( $i\dot{n}gud\bar{\iota}$ ); and cuscus grass ( $u\dot{s}\bar{\imath}ra$ ) alone.
- 39 A ghee that is cooked ( $bh\bar{a}vita$ ) from a decoction of a non-flowering tree (vanaspati)<sup>145</sup> as well as turmeric ( $haridr\bar{a}$ ) and spikenard (nalada) is good in a balm (tarpaṇa).
  - Alternatively, one may have an enclosed roasting ( $puṭap\bar{a}ka$ ) done with arid-land animals ( $j\bar{a}ngala$ )<sup>146</sup> and a plentiful amount of long pepper ( $m\bar{a}gadha$ ), Sindh salt and honey.
- 40 A treatment ( $kriy\bar{a}$ ) with realgar ( $mana h sil\bar{a}$ ), the three spices, conch, honey, along with Sindh salt, green vitriol ( $k\bar{a}s\bar{\imath}sa$ ) and elixir salve ( $ras\bar{a}n\bar{\imath}jana$ ). 147
  - They say that an elixir salve ( $ras\bar{a}\tilde{n}jana$ ) combined with myrobalans, treacle and dried ginger is good.<sup>148</sup>
- Alternatively, a collyrium that has been prepared many times in the eight types of urine<sup>149</sup> is put into water with the three fruits. Having stored it in the mouth of a nocturnal creature  $(niś\bar{a}cara)^{150}$  one should place it in a conch (salilotthita) for two months.<sup>151</sup>

find ref

- One should apply that collyrium together with the flowers of mahua  $(madh\bar{u}ka)$  and horseradish tree  $(\acute{s}igru)$  when [the disease] is caused by all [the humours].
  - But alternatively, all treatments apply when blood is the cause. The procedure that removes bile is good when there is blue dot cataract  $(ml\bar{a}yin)$ .<sup>152</sup>

Check out these refs.

<sup>145</sup> These are fig trees. The *Sauśrutanighanṭu* (252) specifies the Udumbara. Cf. the classification in CS.1.1.71–72, 1.8, *et passim*.

<sup>146</sup> On this term, see SS.1.35.42 ( $Su 1938^2$ :157) and the discussion by Zimmermann (1999:25–31).

<sup>147</sup> Dalhaṇa glosses treatment  $(kriy\bar{a})$  specifically as inspissation  $(rasakriy\bar{a})$   $(Su 1938^2:629)$ .

<sup>148</sup> We emend hite to hitam, against the MSS.

<sup>149</sup> See SS mūtravarga

<sup>150</sup> Dalhaṇa glosses nocturnal creature (niśācara) as "vulture," although elsewhere in the SS it is more commonly interpreted as a spirit or demon. In the present context, following verses 33 and 34, it is probably a snake.

<sup>151</sup> We interpret "water-born (*salilotthita*)" as "conch" in line with *jalodbhava*, but the term is uncertain.

<sup>152</sup> The vulgate follows Dalhaṇa in glossing *mlāyin* as *parimlāya*. The description of this condition at SS.6.7.27−28 appears to refer to "blue dot" or "cerulean" cataract. √*mlai* derivatives can mean "dark" or "black."), which is normally a different ailment.

- For one who has a humour, the physician should consider the rule in all humoral cases and then smear the ointment on the face. The treatment that is good for removing watery eye (*syanda*) should be properly applied in all these humoral cases, according to the individual. The state of the individual.
- The physician should not employ substances in errhines etc., when the humours intensify, and also when disease spreads. And further, in the *Kalpa*, there is a good deal more said about collyriums, and that should be considered and then applied. <sup>155</sup>
- Someone who uses matured ghee, the three fruits, wild asparagus ( $\hat{s}a-t\bar{a}var\bar{\iota}$ ), as well as mung beans (mudga), emblic and barley has nothing to fear from cases of severe blindness (timira).
- 46 Blindness is dispelled by milk prepared with wild asparagus or in emblics, or again cooked barley (*yavaudana*) followed by the water of three fruits with plenty of ghee.
- When there is bloodshot blindness (*rāgiṇi timire*), the wise physician should not cut a vein. A humour injured (*utpīḍita*) by the instrument rapidly destroys vision.
- 48 Non-bloodshot blindness (*araga timira*) in the first layer (*paṭala*) is treatable. And bloodshot blindness (*rāgiṇi timire*) in the second layer, with difficulty. And in the third layer it is mitigable (*yāpya*).
- I shall explain the therapy for success when there is a cataract ( $li\dot{n}ga-n\bar{a}\acute{s}a$ ) caused by phlegm. It may be white, like a full moon, an umbrella, a pearl ( $mukt\bar{a}$ ) or a spiral ( $\bar{a}varta$ ).
- 50 Or it may be uneven, thin in the middle, streaked or have excessive shine (*prabha*). A humour (*doṣa*) in the pupil may be characterized as being painful or having blood. 156
- At a time that is neither too hot or too cold, the patient who has been oiled and sweated is restrained and seated, looking symmetrically at his own nose.

<sup>153</sup> The vulgate edition omits part of this verse (ab) combining earlier and later passages.

<sup>154</sup> The term watery eye (*syanda*) refers to the specific disease *abhiṣyanda*. See SS.6.6.5, 1.46.51, etc.

<sup>155</sup> Palhaṇa notes that *Kalpa* means the Uttaratantra adhyāya 18 (Su 1938<sup>2</sup>: 633 ff).

<sup>156</sup> In the vulgate, and in parallel passages in the AS, the reading "it may be (*bhavet*)" is replaced with the negative "if, then not (*na ced*)" (cf. As utt.17.1–3 (As 1980: 712)). These characteristics are then read as conditions that preclude surgery; for the Nepalese recension, they are simply descriptions of the appearance of a cataract.

The wise physician should separate ( $muktv\bar{a}$ ) two white sections from the black part (krsna) and from the outer corner of the eye ( $ap\bar{a}nga$ ). Having pīḍ- (pressed) properly into the eye, <sup>157</sup> at the naturally occurring (daivakrte) hole (chidra) with the probe ( $sal\bar{a}k\bar{a}$ ) made of copper or iron, with a tip like a barley-corn that is held by a steady hand with the middle finger, forefinger and thumb, the left one with the right hand and the other one contrariwise.

When the piercing is done, there is the simultaneous issue of a drop of liquid and a sound.<sup>158</sup>

- The expert should moisten the exact place of piercing with a woman's breast-milk. Then he should scratch the circuit of the pupil (drstimandala) with the tip of the probe  $(sal\bar{a}k\bar{a})$ . 159
- Without injuring, gently pushing the phlegm in the circuit of the pupil against the nose, he should remove it by means of sniffing (ucchingana). 160
- Whether the humour is solid ( $sty\bar{a}na$ ) or liquid (cala), one should apply sweating to the eye externally, with leaves ( $bha\dot{n}ga$ ) that remove wind, after fixing the needle ( $s\bar{u}c\bar{\imath}$ ) properly.<sup>161</sup>
- But if the humour cannot be destroyed or if it comes back, one should apply the piercing (*vyadha*) once again, with appropriate oils and so on.
- Now the pupil (drsti) shines like the sun (hari) in a cloudless sky; then, when objects become visible, one may slowly remove the probe  $(sa-l\bar{a}k\bar{a})$ .
- 60 Having smeared ghee on the eye, one should cover it with a bandage.

<sup>157</sup> We understand the locative *nayane* as the place of pressing; other interpreters take it as an accusative dual. The idea is that the eye is held steady by the surgeon.

<sup>158</sup> Dalhana interprets simultaneous (*samyak*) rather as "proper," referring to the proper kind of incision.

<sup>159</sup> The anatomy of the eye is described in 6.1.14-16 (Su 1938<sup>2</sup>: 596) The disks or *maṇḍalas* are the circuits or disks of the eye.

<sup>160</sup> Dalhana describes sniffing (*ucchingana*) at 6.19.8 (Su 1938<sup>2</sup>: 641), clearly intending inward sniffing.

<sup>161</sup> We interpret *bhanga* as leaves, following the usage elsewhere in this sthāna 4.32.9, 6.11.5 (Su 1938<sup>2</sup>: 513, 614) where *bhanga* means shoots (*pallava*). A similar procedure is described at As 6.17.25 (As 1980: 716a), where sweating of the eye is done by means of the leaves of a castor-oil plant.

<sup>162</sup> There are many problems with the MS readings and interpretation of this half-verse. We have inferred "sky" and emended from "free from the point (*agramukta*)" to "free from clouds (*abhramukta*)". The latter meaning is supported (in different words) by the vulgate and occurs elsewhere in Sanskrit literature.

- Then, he must lie down supine in a house free from disturbances. 163
- At that time, he should not belch, cough, sneeze, spit or shiver. Afterwards there should be restrictions  $(yantranaa \bar{a})$  as in the case of someone who has drunk oil.<sup>164</sup>
- 62 Every three days one should wash it with decoctions (*kaṣāya*) that remove wind. After three days, one should sweat the eye externally because of the danger of wind.
- Having restrained himself in this way for ten days he should thereafter take a beneficial regimen (*karma*) that clears the pupil (*dṛṣṭi*) and also he should take light food in measure.

### [Complications]

- When there is a misshapen eyeball (*vilocana*), the eye may fill because of the release of blood from a vein. (671)
  - A hard probe leads to shooting pain  $(s\bar{u}la)$ , a thin to unsteadiness of the humours (dosapariplava), <sup>166</sup>
- a thick-tipped probe leads to a large wound, and a sharp one may cause harm in many ways; a very irregular one may cause a discharge of water, a rigid (*sthirā*) one brings about a loss of function (*kriyāsaṅga*).<sup>167</sup>
- 66 Therefore, one should make a good probe that is free from these defects.

### [Characteristics of the probe]

The probe should be eight finger-breadths long and in the middle it is wrapped with thread and is as thick as a thumb joint. It is shaped like

<sup>163</sup> Palhaṇa explains disturbances specifically as dust, smoke, drafts and sunlight 6.17.67 (Su 1938<sup>2</sup>: 631a).

<sup>164</sup> Palhaṇa glosses "restrictions (yantraṇā)" as having a controlled diet and the other restrictions appropriate to someone who is taking oil as a preparation before further therapy (6.17.68 (Su 1938<sup>2</sup>:631)). These restrictions are also described at 6.18.28 (Su 1938<sup>2</sup>:635) and Ah 1.16.25cd (Ah 1902:249).

<sup>165</sup> The condition of "misshapen eye" is referred to briefly in 6.61.9 (Su 1938<sup>2</sup>: 800), where Dalhaṇa glosses it as "bent brow and eye (*vakrabhrūnetra*)." The vulgate's reading of "with blood (*śonitena*)" is easier to construe.

<sup>166</sup> There is a medically significant difference here from the vulgate, which reads "a rough (*khara*) probe" not a "thin" probe.

<sup>167</sup> This translation of loss of function (*kriyāsanga*) is given on the basis of Dalhaṇa's gloss of *kriyāsangakarin* as "causing the destruction of actions such as moving (*gamanādikriyāvināśakarī*)" at 3.8.19 (Su 1938<sup>2</sup>: 382).

- a bud at both ends (vaktra).
- 67 A commendable probe should be made of silver, iron or gold ( $\dot{sataku}$ - $mbh\bar{\iota}$ ). 168

#### [Complications]

Redness, swelling, lumps, driness (coṣa), bubbling (budbuda), <sup>169</sup> pigs' eye  $(s\bar{u}kar\bar{a}kṣit\bar{a})$ , <sup>170</sup>, irritation (adhimantha), etc. and other diseases arise from faults in the piercing,

- or even from bad behaviour. One should treat them each accordingly. Listen to me once again about compounds for painful red eyes. Red chalk (gairikah), Indian sarsaparilla  $(s\bar{a}riv\bar{a})$ , panic grass  $(d\bar{u}rv\bar{a})$ , and ghee ground with barley.
  - 71 This face ointment is to be used for quelling pain and redness. Or else it may be taken combined with the juice of citron (*mātuluṅga*) with sesame gently fried, mixed with white mustard (*siddhārthaka*).<sup>171</sup> This is immediately beneficial when someone is looking for relief.
  - 72 A paste with Holostemma  $(payasy\bar{a})$ , <sup>172</sup> Indian sarsaparilla  $(\dot{s}\bar{a}riv\bar{a})$ , cassia cinnamon (patra), Indian madder  $(ma\tilde{n}jisth\bar{a})$ , and liquorice (madhukair) stirred with goat's milk, pleasantly warmed, is said to be healthy. <sup>173</sup>
  - Alternatively, it can be made in this way with Himalayan cedar, Himalayan cherry (*padmaka*) and dried ginger. Or, in the same way, with grapes, liquorice and the Lodh tree mixed with Sindh salt.

<sup>168</sup> The vulgate reads "copper (tāmra)" in place of "silver."

<sup>169</sup> Palhaṇa glosses "bubbling (budbuda)" as "prolapse (māṃsanirgama) that looks like bubbles."

<sup>170</sup> The expression "pigs' eye" appears to be a *hapax*. It is glossed as "downward vision (*adhodṛṣṭitva*)" by Palhaṇa.

<sup>171</sup> On the adverbial use of gently (*mṛdu*), see Gombrich 1979.

<sup>172</sup> The identity of *payasyā* is debated (Singh and Chunekar 1972: 538), and was already in doubt at the time of Palhaṇa but likely candidates may be those suggested by Palhaṇa, who suggests either *arkapuṣpī* or *kṣīrakākolī*, that may be *Holostemma adakodien* Schult. and *Leptadenia reticulata* (Retz.) Wight & Arn. (Sivarajan and Balachandran 1994: 195-196). The *Sauśrutanighaṇṭu* glosses it as *kṣīrikā* or *arkapuṣpikā* (Suvedī and Tīvārī 2000: v. 307).

<sup>173</sup> The expression "stirred with goat's milk (*ajākṣīrārdita*)" is difficult. It may be connected with the rare root *ard* documented by Whitney (1885:15). Cf. √*ard gatau* (*Dhātupāṭha* 1.56).

- Alternatively, goats' milk with the Lodh tree, Sindh salt, red grapes and liquorice, cooked, should be used in irrigation because it removes pain and redness.
- Having cooked it with liquorice, water-lily, and costus, mixed with grapes (*drākṣā*), lac (*lākṣā*), white sugar (*sitā*), with wild asparagus, Hare Foot Uraria (*pṛthakparṇī*),<sup>174</sup> nutgrass (*mustā*), liquorice, Himalayan cherry (*padmaka*), and Sindh salts, one should apply it [irrigation] gently warm.
- 76cd–77ab Ghee that has been cooked in four times the amount of milk that has itself been cooked with drugs that destroy wind. This has an admixture of cottony jujube  $(k\bar{a}kol\bar{\iota})$  etc., should be prescribed in all treatments. The important of the prescribed in all treatments.
- 77cd–78ab If pain does not end in this way, one should administer blood-letting to the vein of someone who has previously been oiled and sweated. Then the wise physician should apply cauterization in the advised manner. 177
- 78cd–80ab Now listen to two excellent collyriums for making the pupils clear. After grinding the flowers of perploca of the woods (meṣaśṛṅga), siris (śirīṣa), axelwood (dhava) royal jasmine (jātī), pearl and beryl (vaiḍūrya) with goat's milk, one should put it in a copper pot for seven days.
  - 8ocd–81 Having made it into wicks (*vartti*), the physician should apply it as a collyrium. Alternatively, one should make kohl (*srotoja*), coral (*vidruma*), cuttlefish bone (*phena*), and realgar (*manaḥśilā*) and peppers into wicks as before. One should apply these wicks, which are good in a collyrium, to steady the pupil.
    - 82 I shall again discuss the foremost collyriums at length in the *Kriyākalpa* section. Those various methods may be applied here too.

or a dual

<sup>174</sup> Suvedī and Tīvārī 2000: 18.

<sup>175</sup> Dalhaṇa mentions that these drugs include Deodar (*bhadradāru*) and other wind-destroying drugs. The *vātasaṃśamana* group is listed in *Suśrutasaṃhitā sūtrasthāna* 1.39.7.

<sup>176</sup> Dalhana notes that this would include errhines, ointments, etc.

<sup>177</sup> The vulgate reads *vāpi* for *cāpi*, so Dalhaṇa sees blood-letting and cautery as alternatives, not a sequence of treatments. Dalhaṇa lists the places that cauterization may be applied, such as the brow, forehead, etc.

#### **Abbreviations**

Ah 1902 Kumte, Ananta Moreśvara and Navare, Kṛṣṇaśāstrī

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Anup Anup Sanskrit Library (n.d.).

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BL British Library (n.d.).

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: Univer-

sity 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.), सुश्रुतः. सूत्र-निदान-शारीर-चिकित्सा-कल्पोत्तर-तन्त्र-कल्पित आयुर्वेद. भगवता धन्वन्तरिणोपदिष्टः सुश्रुतनामधेयेन तच्छिष्येण विरचितः (3rd edn., Calcutta: Saratī Press), ark:/13960/t1nh6j09c; HIML:IB, 311, edition b.

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Acārya, 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); HIML: IB, 313 edition cc.

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), with changed pagination.

Su 1939 Acārya, \( (1939) (6

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Su 1945

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

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### **Index of Manuscripts**

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

Bikaner Anup 4390, 6
Bikaner RORI 5157, 34

Cambridge Add. 1693, 30

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# Lexical Index

'a man who holds the	diet, 16	massage ointment,
child'	āhārya -	_32
bālagrāhipuruṣa, 21	Take away, 23	apāmarga
'a wick that is too thick'	ahorātra	Prickly Chaff
gāḍhataravartitva,	day and night, 18	Flower, 23
22	aids	apāṅga
abhayā	aṅga, <u>39</u>	edge of the hole, 27
chebulic	ajākṣīrārdita	outer corner of the
myrobalan, 38	stirred with goat's	eye, 44
abhramukta	milk, 46	apatānaka
free from clouds,	alābu	convulsions, 22
44	bitter gourd, 34	application of collyrium
abhyaṅga	ālepa	añjana, 36, 41
massage oil, 32	liniment, 36	apramatta
ācāra	alleviated	diligent, 28
regimen, 16	yāpya, 39	ārā
ācārika	alleviation	awl, <b>22</b>
medical advice, 25	pratīkāra, 18	araga timira
accumulation	Along these lines	Non-bloodshot
sañcaya, 18	evam, 18	blindness, 43
adhimantha	āmalaka	ardhakapāṭasandhika
irritation, 46	emblic, 37	Half door-hinge, 23
adhiṣṭhāna	amra	arid-land animals
located, 16	mango, 37	jāṅgala, <mark>42</mark>
adhodṛṣṭitva	aṇḍaja	arṇavamala
downward vision,	born from eggs, 17	cuttle fish, 38
46	aṅga	asādhya
adhyāya	aids, <u>39</u>	incurable, 36
sections, 19	parts, 18	āsaṅgima
ādityakarāvabhāsita	anger	Fastening, 23
illuminated by	krodha, 16	aśoka
sunshine, 21	animals	Asoka tree, 37
admixture	paśu, 1 <mark>7</mark>	grief, 16
prativāpa, <mark>26</mark>	añjana	Asoka tree
āgantu	application of	aśoka, <mark>37</mark>
external factors, 19	collyrium, 36, 41	āśrayin
agra	eye make-up, 32	substrate, 16
supernatant layer,	stibnite, 41	asthi
41	antra	bones, 18
agramukta	entrails, 39	aṣṭhīlā
free from the point,	ants	pebble, 34
44	pipīlika, 1 <del>7</del>	asūyā
āhāra	anulepana	jealousy, 16

atibalā	'because of the	blindness
strong mallow, 40	accummulation of	timira, 43
ātmaka	humours'	blink of the eye
nature, 16	doṣasamudāyāt, <mark>22</mark>	nimeșa, <mark>17</mark>
āṭopa	bent brow and eye	blood
flatulence, 35	vakrabhrūnetra, 45	rudhira, 17
avalekhana	beryl	śonita, 39
combs, 32	vaiḍūrya, 47	Blood-bile
āvarta	bhadradāru	śonita-pitta,
spiral, 43	Deodar, 47	rakta-pitta, 39
awl	bhakṣyaviśeṣair vā	blood-letting
ārā, <mark>22</mark>	'or by special	sirāvedha, 36
axelwood	treats', 21	bloodshot blindness
dhava, 47	bhaṅga	rāgin timira, 41
ayana	leaves, 44	rāgiņi timire, 43
half-year, 18	bhavet	blue dot cataract
āyatta	it may be, 43	mlāyin, 42
depends on, 16	bhāvita 🗼 🗼	blue lotus
āyur	cooked, 42	utpala, 37
life, longevity, 13	infused, 37	blue vitriol
āyurveda	bhedya	tuttha, 41
the science of life,	splitting, 25	body language
13	bhramaraka ,	iṅgita, 32
baddham	drongo, 33	bones
bound, connected,	bhṛṅgarāja	asthi, <b>18</b>
	racket-tailed	born from eggs
27 balā	drongo, 33	aṇḍaja, 1 <del>7</del>
country mallow, 40	bile	born in in a caul
strength, 16	pitta, 39	jarāyuja, 17
bālagrāhipuruṣa	bimbī	born of sweat
'a man who holds	red gourd, 34	svedaja, 17
the child', 21	bindings	bound, connected
bali	bandha, 25	baddham, 27
morsel, 32	bitter gourd	box myrtle
balm	alābu, 34	kaṭphala, 38
tarpaṇa, 36, 41, 42	black drongo	bṛṃhaṇa
bandha	dhūmyāṭa, 33	nourishment, 16
bindings, 25	black part	bubbling
bearers	kṛṣṇa, 44	budbuda, 46
vodhāra, 32	black pepper	budbuda
beauty berry	marica, 37	bubbling, 46
priyangu, 41	black soot	bulbs
beautyberry	maṣī, <b>3</b> 6	kanda, 17
priyaṃgu, 37	blessings pronounced	bull
śyāmā, 34	svastivācana, 21	vṛṣabha, 33
<del>-</del> -		

cakradhārā	circuit of the pupil	kākolī, 47
rim of a wheel, 24	dṛṣṭimaṇḍala, 44	counteraction
cala	citron	pratiședha, <mark>36</mark>
liquid, 44	mātuluṅga, 46	country mallow
cardamom	clusters	balā, 40
elā, 38	samplava, 17	cow-dung
carmabhedana	cock	gośakṛt, 37
piercing leather, 22	tāmracūḍa, 40	Cow's flesh
carman	collection	gomāṃsa, 37
pelt, 17	varga, 18	cow's urine
carnivore	combined	gomūtra, 38
kravyabhuj, 40	upahita, 39	Creeper-ear
cassia cinnamon	combs	vallīkarņa, 23
patra, 46	avalekhana, 32	creepy-crawlies
castor oil	comfort	sarīsṛpa, 14, 17
pañcāṅgulataila, 39	sukha , 18	Crow's lip
castor oil tree	complexion	kākauṣṭha, 23
gandharvahasta, 22	varņa, 16, 29	curable
e	compounds	sādhya, 36
cāsyāt	-	curds
from his mouth, 34	yoga, 36	dadhi, 35
cataract	Compressed	cuscus grass
linganāśa, 43	saṃkṣipta, 23	uśīra, 41, 42
caturvarga	compressed	cutting
fourfold grouping,	saṃkṣipta, 24	chedya, 25
18	conch	cutting with a blade
catuștaya	salilotthita, 42	śastrakṣata, <mark>36</mark>
four factors, 18	congested humours	cuttle fish
caused by wind	sannipāta, 19	arnavamala, 38
pavanodbhava, 39	convulsions	cuttlefish bone
causing the destruction	apatānaka, 22	phena, 47
of actions such as	cooked	samudraphena, 38
moving	bhāvita, 42	,
gamanādikriyāv-	cooked barley	dadhi
ināśakarī, 45	yavaudana, 43	curds, 35
chebulic myrobalan	copper	dainya
abhayā, 38	tāmra, 46	misery, 16
chedya	coral	dais
cutting, 25	vidruma, 47	pīṭha, 24
excision, 19	coṣa	daivakṛte
Cheek-ear	driness, 46	naturally
gaṇḍakarṇa, 23	cotton	occurring, 44
chidra	picu, <b>2</b> 5	dārvī
hole, 44	Cotton Plant	tree turmeric, 37
chital deer	kārpāsa, 23	datta
nreata 00	cottony jujuho	givon 22

datura flower	Door-hinge	slow-acting poison
dhattūrapuṣpa, 23	kapāṭasandhika, 23	antidote, 35
day and night	dosa	dușța
ahorātra, 18	humour, 43	tainted, 25
decanted liquor	humours, 18	dveṣa
surāmaṇḍa, 25	doṣapariplava	hatred, 16
decoctions	unsteadiness of the	
kaṣāya, 32, 45	humours, 45	earthen products
deer	doṣasamudāyāt	pārthiva, 17, 18
eṇa, 40	'because of the	edge of the hole
Deodar	accummulation of	apāṅga, <mark>27</mark>
bhadradāru, 47	humours', 22	elā
depends on	downward vision	cardamom, 38
āyatta, 16		elixir salve
depression	adhodṛṣṭitva, 46	rasāñjana, 37, 41, 42
viṣāda, 16	drākṣā	Elixir-salve
desert date	grapes, 47	rasāñjana, 37
	dravāñjana	elixir-salve
iṅgudī, 42	liquid collyrium, 41	śīta, 37
desire	dravya	embelia
icchā, 16	substance, 29	vidaṅga, <mark>42</mark>
dhānyāmla	Dried Flesh	emblic
fermented	vallūraka, <mark>23</mark>	āmalaka, 37
rice-water, 25	dried ginger	dhātrī, 38
dhātrī	nāgara, 38	emetic nut
emblic, 38	driness	madana, <mark>34</mark>
dhattūrapuṣpa	coṣa, 46	еṇа
datura flower, 23	drongo	deer, 40
dhava	bhramaraka, 33	enclosed roasting
axelwood, 47	dṛṣṭi	puṭākhya, 40
dhūma	* * *	puṭapāka, 42
inhaled smoke, 32	pupil, 36, 44, 45	ends
dhūmadarśin	dṛṣṭimaṇḍala	vaktra, 46
seeing smoke, 36	circuit of the pupil,	energy
dhūmyāṭa	44	ojas, <b>2</b> 9
black drongo, 33	dry rubs	entrails
dhyāma	utsādana, 32	antra, 39
grimy, 32	duct	envy
diet	sirā, <mark>22</mark>	īrṣyā, 16
āhāra, 16	ducts	errhine
dilator	sirā, 18, 24	nasya, 40
pravardhanaka, 23	duḥkha	essence
diligent	suffering, 16	sāra, 17
apramatta, 28	dūrvā	evam
disease	panic grass, 46	Along these lines,
madhi 18	สมังสุขางกับ	18

excision	from his mouth	cow's urine, 38
chedya, 19	cāsyāt, 34	gośakṛt
expressed juice	fruit trees	cow-dung, 37
svarasa, 37	vanaspati, 17	juice of cow-dung,
external factors	fruits	37
āgantu, 19	phala, 17	granthi
extract of rohu carp		lumps, 22
rauhita, 37	gāḍha	granthita
extracts	pinched, 25	lumpy, 24
rasa, 41	gāḍhataravartitva	grapes
eye make-up	'a wick that is too	drākṣā, 47
añjana, <mark>32</mark>	thick', 22	greed
, , ,	gairika	lobha, 16
Fastening	ochre, 36, 37	green vitriol
āsaṅgima, <mark>23</mark>	gairikaḥ	kāsīsa, 42
Fat	Red chalk, 46	grief
vasā, 40	gamanādikriyāvināśakarī	āśoka, 16
fermented rice-water	causing the	grimy
dhānyāmla, 25	destruction of	dhyāma, 32
Filaments	actions such as	guḍikā
kiñjalka, 37	moving, 45	pill, 37
flame of the forest	gaṇḍakarṇa	r/ 5/
palāśa, 41	Cheek-ear, 23	Half door-hinge
flatulence	gandharvahasta	ardhakapāṭas-
āṭopa, 35	castor oil tree, 22	andhika, <mark>23</mark>
flavours	garlands	half-year
rasa, 16, 29	sraj, 32	ayana, 18
flesh	gauze	Hare Foot Uraria
māṃsa, 18	prota, 25	pṛthakparṇī, 47
vadhra, 28	general rule	hareņu
flowering trees	paribhāṣā, 41	hareṇu, 37, 38
vṛkṣa, 17	gently	hari
flowers	mṛdu, 46	sun, 44
puṣpa, 1 <del>7</del>	ghee	haridrā
fortnight	sarpis, 26, 36	turmeric, 42
pakṣa, 18	given	harṣa
four factors	datta, 33	overexcitement, 16
catuștaya, 18	glassy opacity	hatred
fourfold grouping	kāca, 41	dveșa, 16
caturvarga, 18	godhā	herbs
free from clouds	monitor lizard, 39	oṣadhi, 17
abhramukta, 44	gold	Himalayan cherry
free from the point	śātakumbhī, 46	padmaka, 46, 47
agramukta, 44	gomāṃsa	hīna
	Cow's flesh, 37	reduced, 28
frogs	- ·	hīnakarna
maṇḍūka, 17	gomūtra	пишкитци

Reduced-ear, 23	samrambha, 26	born in in a caul, 17
hole	vidagdha, 36	jātī
chidra, 44	infused	royal jasmine, 47
Holostemma	bhāvita, 37	jealousy
payasyā, 46	ingita	asūyā, 16
honey	body language, 32	joining the ear
kṣaudra, 37	ingudī	karṇabandha, 21
madhu, 37	desert date, 42	joins
madhus, 33	inhaled smoke	sandhāna, 23
honey collyrium	dhūma, 32	sandhi, 24
kṣaudrāñjana, 38	inherent	joints
horseradish tree	svābhāvika, 16	sandhi, 18
śigru, 42	inherent factors	juice extract
human being	svabhāva, 19	svarasa, 17
puruṣa, 16, 18	injured	juice of cow-dung
humour	utpīḍita, 43	gośakṛt, 37
doșa, 43	inspissation	juices
humours	rasakriyā, 42	rasa, 40
doșa, 18	intended	111011, 40
10511, 10	vyākhyāta, 19	kāca
icchā	intestines	glassy opacity, 41
desire, 16	pakvāśaya, 35	kākauṣṭha
if, then not	irregularities	Crow's lip, 23
na ced, 43	vaiṣamya, 16	kākolī
illness	irrigation	cottony jujube, 47
ruj, <u>3</u> 8	seka, 36	kalā
illuminated by sunshine	irritation	minutes, 17
ādityakarāvabhāsita,	adhimantha, 46	kālakṛta
21	prakopa, 18	items created by
in those cases	īrṣyā	time, 17, 18
tatra, 39	envy, 16	kālānusāriva
incurable	it may be	Indian sarsaparilla,
asādhya, <mark>36</mark>	bhavet, 43	38
Indian lotus	items created by time	kāma
nalina, 37	kālakṛta, 17, 18	lust, 16
Indian madder	mmi, 17, 10	kanda
mañjiṣṭhā, <b>22</b> , 46	Jambu	bulbs, 17
Indian sarsaparilla	jambū, 37	kapālacūrņa
kālānusāriva, 38	jambū	powdered
sāriva, 38, 46	Jambu, 37	earthenware
indigo	jāṅgala	crockery, 25
nīlinī, 35	arid-land animals,	kapāṭasandhika
indragopa	42	Door-hinge, 23
red velvet mites, 17	jaṅgama	kapittha
velvet-mite, 34	moving, 17, 18	wood apple, 37
inflamed	iarāvīja	wood apple 27

karma	luffa, 35	кируака
regimen, 45	kravyabhuj	metal, 37
karman	carnivore, 40	kuśa
therapies, 19	krīdanaka	kuśa grass, 41
karnabandha	toys, 21	kuśa grass
joining the ear, 21	kriyā	kuśa, <b>4</b> 1
kaṛnavyadha	procedures, 15, 16,	
piercing the ear, 21	19	lac
karṇavyadhabandhavidhi	treatment, 18, 42	lākṣā, 47
the method of	kriyākāla	lākṣā
piercing and joining	the time for	lac, 47
the ear, 21	therapies, 18	lāmajja
kārpāsa	kriyāsanga	lāmajja grass, 33
Cotton Plant, 23	loss of function, 45	lāmajja grass
kārśmarī		lāmajja, <mark>33</mark>
	kṛmi Marma a -	layer
white teak, 37	Worms, 17	paṭala, 43
kaṣāya	krodha	lead
decoctions, 32, 45	anger, 16	sīsaka, 23
kāśipati	kṛṣṇa	leaves
Lord of Kāśī, 31	black part, 44	bhaṅga, 44
kāsīsa -	long pepper, 36	patra, 17
green vitriol, 42	kṛtamaṅgala	lekhana
kāṣṭhā	received a	Scarification, 16
trice, 17	benediction, 21	lekhya
kaṭphala	kṛtrimahastyaśvabalīvardaśukādi	scarification, 25
box myrtle, 38	replica elephants,	life, longevity
khara	horses, bulls and	āyur, 13
rough, 45	parrots, 21	liṅganāśa
kinihī	kṣaṇadāndhya	cataract, 43
white siris, 42	night blindness, 38	liniment
kiñjalka	kṣāraka	ālepa, 36
Filaments, 37	lye, 41	liquid
kitchen	kṣaudra	cala, 44
mahānasa, 31	honey, 37	liquid collyrium
kliṣṭajihmāpraśastasūcīvyadha	kṣaudrāñjana	dravāñjana, 41
'piercing with a	honey collyrium,	liquorice
painful, crooked and	38	madhuka, 37
unrecommended	kṣīṇa	madhukair, 46
needle', 22	wasted, 26	liver
knowledge	kṣīra	yakṛt, 38, 39
veda, 13	sap, 17	liver extract
kohl	kumāradharārika	yakṛdrasa, 38
srotas, 40	the lap of a man, 21	lobha
srotoja, 38, 47	kunta	greed, 16
kocītakī	emall incosts 45	located

adhiṣṭhāna, 16	long pepper, 38, 39,	citron, 46
lodh tree	41	matured
lodhra, 37, 41	mahānasa	vipakva, 37
lodhra	kitchen, 31	may repair
lodh tree, 37, 41	mahua	yojayed, <del>27</del>
long pepper	madhūka, 40–42	medical advice
kṛṣṇā, 36	malice	ācārika, 25
māgadha, 42	mātsarya, 16	medicines cooked in a
māgadhī, 38, 39, 41	māmsa	crucible
pippali, 37	flesh, <u>18</u>	puṭapāka, 36
Lord of Kāśī	māṃsanirgama	mental
kāśipati, 31	prolapse, 46	mānasa, 16
loss of function	manahśilā	meṣaśṛṅga
kriyāsaṅga, 45	realgar, 38, 41, 42,	perploca of the
Lotus-splittable	47	woods, 47
utpalabhedyaka, 23	red arsenic, 37, 38	meṣaviṣāṇa
luffa	mānasa	periploca of the
koṣītakī, 35	mental, 16	woods, 39
lumps	maṇḍūka	metal
granthi, 22	frogs, 17	kupyaka, 37
lumpy	mango	minutes
granthita, 24	amra, 37	kalā, 17
lust	mañjiṣṭhā	misery
kāma, 16	Indian madder, 22,	dainya, 16
lūtā	46	misshapen eyeball
spiders, 14	manyāstambhā	vilocana, 45
lye	paralysis of the	mitigable
kṣāraka, 41	nape of the neck, 22	уāруа, 43
Kontuku, 41	mardita	mitigatible
madana	massaged, 27	•
emetic nut, 34	marica	yāpya, 36 mlāyin
madhu	black pepper, 37	blue dot cataract,
honey, 37	māsa	
madhūka	month, 18	42 monitor lizard
	mașī	godhā, 39
liquorice, 37	•	
mahua, 40–42	black soot, 36	month
madhukair	massage oil	māsa, 18
liquorice, 46	abhyanga, 32	morsel
madhus	massage ointment	bali, 32
honey, 33	anulepana, 32	moving
madirā	massaged	jaṅgama, 17, 18
spirits, 38, 41	mardita, 27	mṛdu
māgadha	mātsarya	gently, 46
long pepper, 42	malice, 16	mudga
māgadhī	mātuluṅga	mung beans, 43

three-quarters of an hour, 18 muktā pearl, 43 muktoā pearl, 43 muktoā separate, 44 mūla linī root, 16 roots, 17 Multi-joins separate, 23 mung beans vyāyojima, 23 mung beans blink of the eye, 17 mudga, 43 mūrcchā setupo, 34 mirycchā setupo, 34 miryckā niewa linīti sācara resin, 17 rodents, 14 mustā niewa linīti sācara lesin, 17 rodents, 14 mustā niewa linīti sācara lesin, 17 rodents, 14 mustā nocturnal creature, 18 nutgrass, 47 myrobalan pathyjā, 37 na ced if, then not, 43 nadījā salt, 37 na ced if, then not, 43 nadījā salt, 37 na aced if, then not, 43 nadījā no wind linīti no vind lin	muhūrta	nimba, 23	sneha, 17
an hour, 18 muktā nemīsandhānakaḥ pearl, 43 muktvā night blinchess separate, 44 mīlla nīlinī root, 16 roots, 17 Multi-joins Neem tree, 23 mung beans mudga, 43 mūrcchā stupco, 34 mūrgiška resin, 17 rodents, 14 mustā nocturnal creature, nutgrass, 47 myrobalan pathyā, 37 maced if, then not, 43 nadīja salt, 37 madīja salt, 37 māgara dried ginger, 38 nalada spikenard, 33, 42 nalina Indian lotus, 37 nasal medicines nasya, 36 nasya errhine, 40 nasal medicines nasya, 36 nasya non-flowering tree vanaspati, 42 nourishment brynthana, 16 nutgras non-flowering tree vanaspati, 42 nourishment brynthana, 16 nutgras non-flowering tree vanaspati, 42 nourishment brynthana, 16 nutgras, 47 pain and injury vedanābhighāta, 13 pāka septic, 25 pakṣa intestines, 35 paksa flame of the forest, 41 parcāngulataila castor oil, 39		<del></del>	•
muktā nemīsandhānakaļ nemīsandhānakaļ pearl, 43 night blindness separate, 44 ksanadāndhya, 38 mīlānī root, 16 indigo, 35 vital energy, 29 vital energy, 16 options vyāyojima, 23 nimesa blink of the eye, 17 nimesa blink of the eye, 17 nimesa stupor, 34 nirvadāna nocturnal creature, nutgrass, 47 nasal medicines nasya errhine, 40 nasal medicines, 36 smuff, 32 naturally occurring daivakṛte, 44 nature ātmaka, 16 needle sūcī, 44 nature adread sicīcī, 44 nature attre finding nilding indigators in the nert and nemīsandhina nildin, 23 ningar nington, 23 nimisa energy, 29 vital energy, 16 options vital energy, 29 vital energy, 16 options vital energy, 16 options vital energy, 29 vital energy, 16 options vital energy, 29 vital energy, 16 options vital energy, 16 options vital energy, 16 options vital energy, 29 vital energy, 16 options vital energy, 16 options vital energy, 29 vital energy, 16 options vital energy, 16 o			
pearl, 43         Rim-join, 23         the ear udoartana, 27           mulktvā         night blindness         udoartana, 27           separate, 44         milla         nilinā         ojas           mula         nilinā         energy, 29         vital energy, 16           roots, 17         nimba         options         vital energy, 16           Multi-joins         Neem tree, 23         vital energy, 16           vyāyojima, 23         nimsa         options           mung beans         blink of the eye, 17         vitalpa, 24           mircehā         Ready-Split, 23         opatha           murcehā         Ready-Split, 23         herbs, 17           misika         resin, 17         remedies, 18           rodents, 14         nisācara         opathā           mustā         nocturnal creature,         nisēvita         apānga, 44           myrobalan         prepared, 40         outer corner of the eye           musd, 37         no wind, 17         no wind         no wind           salt 37         no wind         nivāla         pafānga, 44           notural creature         nisācara, 42         no wind         harşa, 16           nidala         prival         palamaka			1 1 1
muktvā separate, 44 kṣaṇadāndhya, 38 mūla nilnī indigo, 35 milba root, 16 indigo, 35 milba roots, 17 nimba roots, 17 nimesa roots, 18 planka, 24 roots, 18 planka, 24 roots, 19 prepared, 40 missācara roots, 19 nivalia roots, 37 nasal medicines roots, 36 saudf, 32 nasula medicines, 36 saudf, 32 naturally occurring datavakt, 44 nature atmaka, 16 needle stūcī, 44 spārāa, 40 roots, 44 pañāna, 40 sestor oli, 39 roots, 19 planka, 16 needle stūcī, 44 spārāa, 40 roots, 44 pañāna, 46 needle stūcī, 44 spārāa, 40 roots, 19 planka, 16 needle stūcī, 44 spārāa, 40 roots, 44 pañāna, 40 sestor oli, 39 roots and palava roots, 19 planka, 16 needle stūcī, 44 spārāa, 40 roots, 44 pañāna, 40 sestor oli, 39 roots and palavaka roots, 19 planka, 16 needle stūcī, 44 spārāna, 40 sestor oli, 39 roots and palavaka roots, 19 planka, 16 needle stūcī, 44 spārāna, 40 sestor oli, 39 roots and palavaka roots, 19 planka, 10 planka, 16 needle stūcī, 44 spārāna, 40 sestor oli, 39 roots and palavaka roots, 19 planka, 10 planka, 16 needle stūcī, 44 spārāna, 40 castor oli, 39		•	
separate, 44 mūla nīlinī root, 16 roots, 17 Multi-joins Neem tree, 23 mung beans mudga, 43 mūlinī nīlinī Neem tree, 23 mung beans mudga, 43 mūlinī nīlinī nimba vijāyojima, 23 mung beans mudga, 43 mirvedhima nīlinī notural creature, nitgika nocturnal creature, nutgrass, 47 myrobalan pathyā, 37 na ced if, then not, 43 nadījā salt, 37 nadījā nadijā salt, 37 nadīgara dried ginger, 38 nalada spikenard, 33, 42 nalina Indian lotus, 37 nasal medicines nasya errhine, 40 nasal medicines nasya errhine, 40 nasal medicines nasya errhine, 40 nasal medicines nasya alaturally occurring daivakṛte, 44 nature atmaka, 16 needle stūcī, 44  notimba nimba nimina nimba nivalinin noturnal creature nisācara nowind nivilia, 17 noturnal creature nisācara nowind, 17 noturnal creature nisācara noturnal creature nisācara noturnal creature nisācara nowind nivilia, 17 noturnal creature nisācara nom-dhouering tree vanaspati, 42 nom-		_	
mūla nīlimī energy, 29 vital energy, 16 options vital energy, 16 options options vitaleņe, 23 vital energy, 16 options vitaleņe, 23 vital energy, 16 options vitaleņe, 24 or vitaleņe, 24 vitaleņe, 24 vitaleņe, 25 vitaleņe, 26 options vitaleņe, 27 vitalenergy, 16 options vitaleņe, 29 vitalenergy, 16 options vitaleņe, 29 vitalenergy, 16 options vitaleņe, 23 vitalenergy, 16 options vitaleņe, 23 vitalenergy, 16 options vitaleņe, 23 vitalenergy, 16 options vitaleņe, 24 vitalenergy, 16 options vitalenergy, 16 options vitalenergy, 16 options vitaleņe, 24 vitalenergy, 16 options vitaleņe, 24 vitalenergy, 16 options vitalenergy, 16 options vitaleņe, 24 vitalenergy, 16 options vitalenergy, 16 options vitaleņe, 23 vitalenergy, 16 options vitaleņe, 24 vitalenergy, 16 options vitaleņe, 24 vitalenergy, 16 options vitalenergy, 16 options vitalenergy, 16 options vitaleņe, 24 vitalenergy, 16 options vitalenergy, 16 options vitalenergy, 16 options vitaleņe, 24 vitaleņe, 24 vitalenergy, 16 options vitaleņe, 24 vitalenergy, 16 options vitaleņe, 24 vitalenergy, 16 vitalenerge, 25 vitalenerge		•	
root, 16 roots, 17 nimba nimba Neem tree, 23 vyāyojima, 23 nimeṣa blink of the eye, 17 niwada, 43 mūrcchā stupor, 34 mūrcchā rodents, 14 mustā rodents, 14 mustā nutgrass, 47 myrobalan patlnyā, 37 na ced if, then not, 43 nadīja salt, 37 nadīja salt, 37 nadāja spikenard, 33, 42 nalina Indian lotus, 37 nasal medicines nasya errhine, 40 nasal medicines nasya arga timira, 43 nort-reature nisācara novind no wind no win			,
roots, 17 Multi-joins vyāyojima, 23 mung beans mundga, 43 mūrcchā stupor, 34 mūṣika rodents, 14 mustā nocturnal creature, nutgrass, 47 na ced if, then not, 43 nadāja salt, 37 nāgara dried ginger, 38 nalada spikenard, 33, 42 nalada Indian lotus, 37 nasal medicines nasya errhine, 40 nasal medicines, 36 snuff, 32 natural alada surie, 44 nature alimaka, 16 needle sūcī, 44 nature alimaka, 16 nivēdima 2 1 oeadhi needle off his cy. pakay neete, 17 nemedies, 18 oeadhi needle off his cy. pakay neede opatika, 24 ovexexictement harṣa, 16 outer corner of the eye apāṇa, 44 outer corner of the ey		indigo, 35	
Multi-joins			
mung beans blink of the eye, 17 mudga, 43 mūrcchā Ready-Split, 23 mūrcchā stupor, 34 mūrschā rodents, 14 muslā rodents, 14 muslā noturnal creature, mutgrass, 47 myrobalan pathyā, 37 maēgara dried ginger, 38 nalada spikenard, 33, 42 nlindian lotus, 37 nasal medicines nasya, 36 nasya errhine, 40 nasal medicines, 36 ssuyf, 32 naturally occurring daivaka, 16 needle sūcī, 44 nature dried ginger, 44 nature dired ginger, 36 nasya nasal daivaka, 16 needle sūcī, 44 nature dired ginger, 44 nature dired ginger, 36 nasya nasal medicines, 36 ssuyf, 32 naturally occurring daivaka, 16 needle sūcī, 44 nature dried ginger, 44 nature dired ginger, 36 nasya nasal medicines, 36 ssuyf, 32 naturally occurring daivaka, 16 needle sūcī, 44 nature dried ginger, 36 nasya nasal medicines, 36 ssuyf, 32 naturally occurring daivaka, 16 needle sūcī, 44 nature dried ginger, 36 nasya nasal medicines, 36 ssuyf, 32 naturally occurring daivaka, 16 needle sūcī, 44 nature dried ginger, 36 nirvāta nocturnal creature, remedies, 18 osadhi neredie, 18 osadhi- remedies, 18 ovaethie noturnal creature, nisēcara outer corner of the eye apānga, 44 overexcitement harsa, 16 noutrocurring remedies, 18 osadhi- remedie		Neem tree, 23	
mung beans blink of the eye, 17 mirvada nirvedhima 21 mirvcha Ready-Split, 23 oṣadhi stupor, 34 miryāsa herbs, 17 remedies, 18 rodents, 14 mustā nocturnal creature, nutgrass, 47 de mirvāta no vind, 17 pathyā, 37 prepared, 40 used, 39 harsa, 16 mirāta, 17 no wind salt, 37 nocturnal creature dried ginger, 38 nalada Spikenard, 33, 42 nalama lndian lotus, 37 nasal medicines nasya, 36 nasya errhine, 40 nasal medicines, 36 snutiff, 32 naturally occurring data data kat, 16 needle sūcī, 44 sapāṇa, 40 castor oil, 39	,	<del>-</del>	
Ready-Split, 23 oṣadhi stupor, 34 niryāsa herbs, 17 mūṣika rodents, 14 niṣācara oṣadhī- mustā nocturnal creature, nutgrass, 47 42 outer corner of the eye myrobalan pathyā, 37 prepared, 40 used, 39 nivāta if, then not, 43 no wind, 17 no wind salt, 37 nocturnal creature dried ginger, 38 nisācara, 42 himalada splkenard, 33, 42 nalina Indian lotus, 37 nasal medicines nasya errhine, 40 nasal medicines, 36 smuff, 32 naturally occurring daivakṛte, 44 nature ātmaka, 16 needle sūcī, 44 sapāṇa, 40 spantal readure atmaka, 16 needle sūcī, 44 sapāṇa, 40 spantal readure atmaka, 16 needle sūcī, 44 sapāṇa, 40 spantal readure neisācara, 42 herbe, 17 remedies, 18 noter creature, opadalī- novind apāṇa, 14 overexcitement novind, 17 pacification saṇṣamana, 16 upaśama, 18 padmaka lhribal netus, 37 non-flowering tree vanaspati, 42 paikṣa intestines, 35 palāśa nostructed by blood naka fortnight, 18 pakvāšaya intestines, 35 palāśa naturally occurring atmaka, 16 off his hand sapāṇa, 40 castor oil, 39		blink of the eye, 17	
stupor, 34 mūṣika rodents, 14 mustā nutgrass, 47 mustā nutgrass, 47 ma ced nif, then not, 43 nadīja salt, 37 naīgara dried ginger, 38 nalada spikenard, 33, 42 nalina Indian lotus, 37 nasal medicines nasya errhine, 40 nasya errhine, 40 nasya errhine, 40 nasuri findan lotus, 36 snutff, 32 naturally occurring daivakṛte, 44 nature atmaka, 16 needle sūcī, 44 needle sūcī, 44  nirāāa resin, 17 remedies, 18 oṣadhī- remedies, 16 ooṣadhī- remedies, 18 ooṣadhī- remedies, 16 oosadhī- remedie	mudga, 43	nirvedhima	21
resin, 17 remedies, 18 rodents, 14 niŝācara oṣadhī- mustā nocturnal creature, nutgrass, 47 42 outer corner of the eye myrobalan pathyā, 37 prepared, 40 overexcitement used, 39 harşa, 16 na ced nivāta if, then not, 43 no wind, 17 pacification salt, 37 no wind salt, 37 no wind spikenard, 33, 42 nourishment Indian lotus, 37 nasal medicines nasya, 36 nasya errhine, 40 nasal medicines, 36 snuff, 32 naturally occurring daivakṛte, 44 nature ātmaka, 16 needle sūcī, 44 salta dalta nocturnal creature, remedies, 18 oṣadhī- nocturnal creature, remedies, 16 outer corner of the eye apāṇga, 44 overexcitement harşa, 16 narşā, 16 narşa, 16 narşa, 16 nivāta, 17 pacification saṃśamana, 16 padmaka Himalayan cherry, 46, 47 pain and injury vedanābhighāta, 13 pāka septic, 25 pakṣa fortnight, 18 pakvāśaya intestines, 35 palāša flame of the forest, 41 pallava sapāṇa, 40 castor oil, 39		Ready-Split, 23	oṣadhi
resin, 17 remedies, 18 rodents, 14 niŝācara oṣadhī- mustā nocturnal creature, nutgrass, 47 42 outer corner of the eye myrobalan niṣevita apāṇga, 44 naced nivāta if, then not, 43 no wind, 17 no wind salt, 37 no wind nādīja no wind, 17 no wind afried ginger, 38 niṣācara, 42 nolurishment nasal medicines nasal medicines, 36 snuff, 32 naturally occurring daivakṛte, 44 nature atmaka, 16 needle sūcī, 44 september of the eye niṣcara outer corner of the eye apāṇga, 44 overexcitement harṣa, 16 outer corner of the eye apāṇga, 44 overexcitement harṣa, 16 outer corner of the eye apāṇga, 44 overexcitement harṣa, 16 outer corner of the eye apāṇga, 44 overexcitement harṣa, 16 outer corner of the eye apāṇga, 44 overexcitement harṣa, 16 no wind, 17 no wind nioāta, 17 padinal notaṣa, 16 nivāta, 17 palmaka, 16 outer corner of the eye apāṇga, 44 overexcitement harṣa, 16 outer corner of the eye apāṇga, 44 overexcitement harṣa, 16 no wind, 17 no wind nioāta no wind, 17 no wind nioāta Non-bloodshot blindness araga timira, 43 non-flowering tree vanaspati, 42 nourishment bṛnhaṇa, 16 nutgrass mustā, 47 palmaka intestines, 35 palāša flame of the forest, 41 pallava shoots, 44 pañcāṅgulataila sapāṇa, 40 castor oil, 39	stupor, 34	niryāsa	herbs, 17
mustā nocturnal creature, remedies, 16 outer corner of the eye apānga, 44 overexcitement used, 39 nivāta no wind, 17 no wind, 17 no wind salt, 37 nowind clied ginger, 38 nalada spikenard, 33, 42 non-flowering tree variaspati, 42 nasal medicines nasya, 6 errhine, 40 nasal medicines, 36 snuff, 32 naturally occurring datavakrte, 44 nature at the size of the size of the eye apānga, 44 outer corner of the eye apānga, 44 overexcitement harşa, 16 outer corner of the eye apānga, 44 overexcitement harşa, 16 overexcitement harşa, 16 overexcitement harşa, 16 upaśama, 16 upaśama, 18 pacification samśamana, 16 upaśama, 18 padmaka Himalayan cherry, 46, 47 pain and injury vedanābhighāta, 13 pāka septic, 25 pakṣa fortnight, 18 pakvāšaya intestines, 35 palāṣ́sa flame of the forest, 41 nature ochre pallava sapāṇa, 40 castor oil, 39		resin, 17	
nutgrass, 47 myrobalan misevita myrobalan maced misevita maced if, then not, 43 nadija salt, 37 nagara dried ginger, 38 nalina Indian lotus, 37 nasal medicines masya errhine, 40 nasal medicines, 36 snuff, 32 naturally occurring driedle interval and the span of the eye myrobalan misevita misevita misevita misevita morepraved, 40 used, 39 nivāta, 17 pacification sanņśamana, 16 upaśama, 18 padmaka Himalayan cherry, 46, 47 pain and injury vedanābnighāta, 13 pāka septic, 25 pakṣa nourishment brmhana, 16 nutgrass mustā, 47 nature mature mature maturaly occurring myrobalan nisevita morievita morievita moriata, 17 magara nocturnal creature misācara, 42 Non-bloodshot blindness araga timira, 43 non-flowering tree vanaspati, 42 morishment brmhana, 16 nutgrass mustā, 47 mustā, 47 mature maturaly occurring morievita moriata moriata, 46 nutgrass mustā, 47 mature maturaly occurring morievita moriata moriata, 46 nutgrass mustā, 47 mature maturaly occurring morievita moriata moriata, 46 moriata moriata, 46 moriata, 45 moriata moriata, 16 moriata moriata moriata, 16 moriata moriata moriata moriata, 16 moriata moriatia m	rodents, 14	niśācara	oṣadhī-
myrobalan pathyā, 37 prepared, 40 used, 39 nivāta na ced if, then not, 43 no wind, 17 naāgara dried ginger, 38 nalada spikenard, 33, 42 nalina Indian lotus, 37 nasal medicines nasya errhine, 40 nasal medicines, 36 snuff, 32 naturally occurring dried ginger, 36 naturally occurring datoakret, 44 nature a tried ginger, 36 naturally occurring datoakret, 44 needle sūcī, 44 needle sūcī, 44 needle sūcī, 44  naturally occurring datoakret, 44 needle sūcī, 44  needle sūcī, 44  needle sūcī, 44  needle sūcī, 44  naturally occurring datoakret, 44 needle sūcī, 44  sapāṇa, 40  overexcitement harşa, 16  verexcitement harşa, 16  noverexcitement harşa, 16  verexcitement harşa, 16  noverexcitement harşa, 16  noverexcitement harşa, 16  verexcitement harşa, 16  noverexcitement harşa, 16  verexcitement harşa, 16  verexcitement harşa, 16  vanasal, 17  pacification saṃśamana, 16  upaśama, 16  upaśama, 18 padmaka  Himalayan cherry, vedanābhighāta, 13 pāka septic, 25 pakṣa intestines, 35 palāśa intestines, 35 palāśa flame of the forest, 41 nature pallava shoots, 44 pañcāṇgulataila castor oil, 39	mustā	nocturnal creature,	remedies, 16
na ced used, 39 nivāta pacification nadīja no wind, 17 pacification saṃšamana, 16 upaśama, 18 padmaka padmaka hisācara, 42	nutgrass, 47	42	outer corner of the eye
na cednivātaharṣa, 16if, then not, 43no wind, 17pacificationnadījano windsaṃśamana, 16salt, 37nivāta, 17upaśama, 18nāgaranocturnal creaturepadmakadried ginger, 38niśācara, 42Himalayan cherry,naladaNon-bloodshot46, 47spikenard, 33, 42blindnesspain and injurynalinaaraga timira, 43pain and injurynasal medicinesvanaspati, 42septic, 25nasya, 36nourishmentpakṣanasyabṛṃhaṇa, 16fortnight, 18errhine, 40nutgrasspakvāśayanasal medicines, 36mustā, 47palāśanaturally occurringobstructed by bloodflame of the forest,daivakṛte, 44raktabaddha, 25pallavanatureochrepallavaātmaka, 16gairika, 36, 37shoots, 44needleoff his handpañcāṅgulatailasūcī, 44sapāṇa, 40castor oil, 39	myrobalan	nișevita	apāṅga, 44
if, then not, 43 no wind, 17 pacification  nadīja no wind  salt, 37 no wind  nagara nocturnal creature  dried ginger, 38 nocturnal creature  spikenard, 33, 42 non-bloodshot  spikenard, 33, 42 non-flowering tree  nasya, 36 nourishment  nasya errhine, 40 nasal medicines, 36 snuff, 32 naturally occurring  nature  divatre  data no wind  no wind, 17 pacification  saṃśamana, 16  upaśama, 18  padmaka  Himalayan cherry,  46, 47  pain and injury  vedanābhighāta, 13  pāka  septic, 25  pakṣa  intestines, 35  palāśa  intestines, 35  palāśa  naturally occurring obstructed by blood  daivakṛte, 44 raktabaddha, 25  nature  ātmaka, 16 gairika, 36, 37 shoots, 44  needle  sūcī, 44 sapāṇa, 40 castor oil, 39	pathyā, 37	prepared, 40	overexcitement
if, then not, 43  nadīja  salt, 37  nāgara  dried ginger, 38  naliaa  Indian lotus, 37  nasal medicines  nasya  errhine, 40  nasal medicines, 36  snuff, 32  naturally occurring  daivakṛte, 44  nature  ātmaka, 16  gairika, 36, 37  needle  sūcī, 44  no wind, 17  no wind  saṃśamana, 16  upaśama, 18  padmaka  Himalayan cherry,  46, 47  pain and injury  vedanābhighāta, 13  pāka  septic, 25  pakṣa  fortnight, 18  pakvāšaya  intestines, 35  palāša  flame of the forest,  41  pallava  shoots, 44  pañcāṅgulataila  castor oil, 39	1	used, 39	harṣa, 16
nadīja salt, 37 nāgara no wind nivāta, 17 nagara dried ginger, 38 nalada spikenard, 33, 42 nalina Indian lotus, 37 nasal medicines nasya, 36 nasya errhine, 40 nasal medicines, 36 snuff, 32 naturally occurring daivakṛte, 44 nature atmaka, 16 needle sūcī, 44 needle sūcī, 44  no wind nivāta, 17 nupsáma, 16 nupsáma, 18 padmaka Himalayan cherry, 46, 47 pain and injury vedanābhighāta, 13 pāka septic, 25 pakṣa fortnight, 18 pakvāśaya intestines, 35 palāṣa intestines, 35 palāṣa shoots, 44 pañcāṅgulataila sapāṇa, 40 castor oil, 39		nivāta	
salt, 37  nāgara  dried ginger, 38  nalada  spikenard, 33, 42  nalina  Indian lotus, 37  nasal medicines  nasya  errhine, 40  nasal medicines, 36  snuff, 32  naturally occurring  datvakṛte, 44  nature  ātmaka, 16  needle  sūcī, 44  needle  sūcī, 44  needle  sūcī, 44  notimāta, 17  nivāta, 17  nivāta, 17  nupásama, 18  padmaka  Himalayan cherry,  46, 47  pain and injury  vedanābhighāta, 13  pāka  septic, 25  pakṣa  nourishment  bṛṇhlaṇa, 16  nutgrass  nustā, 47  palāmaka  fortnight, 18  pakvāšaya  intestines, 35  palāša  flame of the forest,  41  pallava  sapāṇa, 40  castor oil, 39		no wind, 17	*
nāgara dried ginger, 38 nocturnal creature nisācara, 42 Non-bloodshot spikenard, 33, 42 nalina Indian lotus, 37 nasal medicines nasya, 36 nasya errhine, 40 nasal medicines, 36 snuff, 32 naturally occurring daivakṛte, 44 nature atmaka, 16 needle sūcī, 44 needle sūcī, 44  naloda Non-bloodshot blindness norisācara, 42 Non-bloodshot blindness narigācara, 42 Non-bloodshot palina narigācara, 42 Himalayan cherry, 46, 47 pain and injury vedanābhighāta, 13 pāka septic, 25 pakṣa fortnight, 18 pakvāśaya intestines, 35 palāśa intestines, 35 palāśa flame of the forest, 41 pallava shoots, 44 pañcāṅgulataila sapāṇa, 40 castor oil, 39	*		•
dried ginger, 38  nalada  Non-bloodshot  spikenard, 33, 42  nalina  Indian lotus, 37  nasal medicines  nasya  errhine, 40  nasal medicines, 36  snuff, 32  naturally occurring  daivakṛte, 44  nature  ātmaka, 16  needle  sūcī, 44  Non-bloodshot  yoldanābhighāta, 13  Himalayan cherry,  46, 47  pain and injury  vedanābhighāta, 13  pāka  septic, 25  pakṣa  nourishment  bṛṇṇhaṇa, 16  nutgrass  nustā, 47  palāṣsa  intestines, 35  palāṣsa  intestines, 35  palāṣsa  flame of the forest,  41  pallava  shoots, 44  pañcāṅgulataila  sapāṇa, 40  castor oil, 39			•
nalada spikenard, 33, 42 blindness nalina lindian lotus, 37 nasal medicines nasya errhine, 40 nasal medicines, 36 snuff, 32 naturally occurring daivakṛte, 44 nature atmaka, 16 needle sūcī, 44  sapāṇa, 40  Non-bloodshot blindness pain and injury vedanābhighāta, 13 pāka septic, 25 pakṣa fortnight, 18 pakvāśaya intestines, 35 palāśa intestines, 35 palāśa flame of the forest, 41 pallava shoots, 44 pañcāṅgulataila sapāṇa, 40 castor oil, 39			•
spikenard, 33, 42  malina  Indian lotus, 37  nasal medicines  masya, 36  masya  errhine, 40  nasal medicines, 36  snuff, 32  naturally occurring  daivakṛte, 44  nature  atmaka, 16  needle  sūcī, 44  blindness  pain and injury  vedanābhighāta, 13  pāka  septic, 25  pakṣa  fortnight, 18  pakvāṣaya  intestines, 35  palāṣa  intestines, 35  palāṣa  fortnight, 18  pakvāṣaya  intestines, 35  palāṣa  flame of the forest,  41  pallava  shoots, 44  pañcāngulataila  sapāṇa, 40  castor oil, 39			
nalinaaraga timira, 43vedanābhighāta, 13Indian lotus, 37non-flowering treepākanasal medicinesvanaspati, 42septic, 25nasya, 36nourishmentpakṣanasyabṛṃhaṇa, 16fortnight, 18errhine, 40nutgrasspakvāśayanasal medicines, 36mustā, 47intestines, 35snuff, 32naturally occurringobstructed by bloodflame of the forest,daivakṛte, 44raktabaddha, 2541natureochrepallavaātmaka, 16gairika, 36, 37shoots, 44needleoff his handpañcāṅgulatailasūcī, 44sapāṇa, 40castor oil, 39			
Indian lotus, 37 nasal medicines nasya, 36 nasya errhine, 40 nasal medicines, 36 snuff, 32 naturally occurring daivakṛte, 44 nature atmaka, 16 needle sūcī, 44  nasya non-flowering tree vanaspati, 42 septic, 25 pakṣa septic, 25 pakṣa fortnight, 18 pakvāśaya intestines, 35 palāśa flame of the forest, 41 pallava spāṇa, 36, 37 shoots, 44 pañcāṅgulataila sūcī, 44 sapāṇa, 40 sapāṇa, 40 septic, 25 pakṣa septic, 25 pak			
nasal medicines  nasya, 36  nasya  nasya  nasya  nasya  errhine, 40  nasya  nasal medicines, 36  snuff, 32  naturally occurring  daivakṛte, 44  nature  atmaka, 16  natural  sūcī, 44  needle  sūcī, 44  nature  nasya  vanaspati, 42  septic, 25  pakṣa  fortnight, 18  pakvāśaya  intestines, 35  palāśa  flame of the forest,  41  pallava  shoots, 44  pañcāṅgulataila  sapāṇa, 40  castor oil, 39			
nasya, 36 nourishment pakṣa fortnight, 18 errhine, 40 nutgrass nasal medicines, 36 snuff, 32 naturally occurring daivakṛte, 44 nature atmaka, 16 needle sūcī, 44 nourishment pakṣa fortnight, 18 pakvāśaya intestines, 35 palāśa flame of the forest, 41 pallava shoots, 44 pañcāṅgulataila sapāṇa, 40 castor oil, 39		_	•
nasya bṛṇḥaṇa, 16 fortnight, 18 errhine, 40 nutgrass pakvāśaya nasal medicines, 36 mustā, 47 intestines, 35 snuff, 32 palāśa naturally occurring obstructed by blood flame of the forest, daivakṛte, 44 raktabaddha, 25 41 nature ochre pallava ātmaka, 16 gairika, 36, 37 shoots, 44 needle off his hand pañcāṅgulataila sūcī, 44 sapāṇa, 40 castor oil, 39			
errhine, 40 nasal medicines, 36 snuff, 32 naturally occurring daivakṛte, 44 nature atmaka, 16 needle sūcī, 44 nature naturally official asapāṇa, 40 nutgrass	The state of the s		•
nasal medicines, 36 $must\bar{a}$ , 47 $pal\bar{a} \pm \bar{a} = \bar{a} = \bar{a} \pm \bar{a} = \bar{a} = \bar{a} \pm \bar{a} = \bar{a} \pm \bar{a} = \bar{a}$			
snuff, 32 naturally occurring daivakṛte, 44 nature atmaka, 16 needle sūcī, 44  sapāṇa, 40  palāśa flame of the forest, 41 pallava spalava sapāṇa, 40  castor oil, 39			•
naturally occurring obstructed by blood flame of the forest,  daivakṛte, 44 raktabaddha, 25 41  nature ochre pallava  ātmaka, 16 gairika, 36, 37 shoots, 44  needle off his hand pañcāṅgulataila  sūcī, 44 sapāṇa, 40 castor oil, 39		mustā, 47	
daivakṛte, 44 raktabaddha, 25 41 nature ochre pallava ātmaka, 16 gairika, 36, 37 shoots, 44 needle off his hand pañcāṅgulataila sūcī, 44 sapāṇa, 40 castor oil, 39		obstructed by blood	•
nature ochre pallava  ātmaka, 16 gairika, 36, 37 shoots, 44  needle off his hand pañcāṅgulataila sūcī, 44 sapāṇa, 40 castor oil, 39		-	
ātmaka, 16gairika, 36, 37shoots, 44needleoff his handpañcāṅgulatailasūcī, 44sapāṇa, 40castor oil, 39			
needle off his hand pañcāṅgulataila sūcī, 44 sapāṇa, 40 castor oil, 39			•
sūcī, 44 sapāṇa, 40 castor oil, 39			the state of the s
• • • • • • • • • • • • • • • • • • • •			
panic grass		· · · · · · · · · · · · · · · · · · ·	
	TACCILL LICE	OII	partic grass
67		_	

dūrvā, 46	physical	prakopa
paralysis of the nape of	śārīravad, 18	irritation, 18
the neck	picu	prakrti
manyāstambhā, <mark>22</mark>	cotton, 25	temperament, 16
paribhāṣā	pīd-	pralepa
general rule, 41	pressed, 44	ointment, 34
pārthiva	piercing	pratīkāra
earthen products,	vyadha, 44	alleviation, 18
17, 18	vyadhana, 25	remedy, 36
partial blindness	piercing leather	pratisandhā-
timira, 39	carmabhedana, 22	put it back
particulars	piercing the ear	together, 28
vikalpa, 18	karnavyadha, 21	pratiședha
parts	'piercing with a painful,	counteraction, 36
aṅga, 18	crooked and	prativāpa
paśu	unrecommended	admixture, 26
animals, 17	needle'	pratuda
patala	kliṣṭajihmā-	scavenging, 26
layer, 43	praśastasūcīvyadha,	pravardhanaka
pāthā	22	dilator, 23
velvet leaf, 42	pigs' eye	prayojanavat
pathyā	sūkarākṣitā, 46	practical purposes
myrobalan, 37	pill	18
patra	guḍikā, 37	prepared
cassia cinnamon,	pinched	nișevita, 40
46	gāḍha, 25	prepared with tilvaka
	pipīlika	tailvaka, 36
leaves, 17 pavanodbhava	• •	•
	ants, 17	prepared with turpeth
caused by wind, 39	pippali	traivṛta, 36
payasyā	long pepper, 37	pressed
Holostemma, 46	pīṭha	pīḍ-, 44
pearl	dais, 24	Prickly Chaff Flower
muktā, 43	pitta	apāmarga, 23
pebble	bile, 39	priyangu
aṣṭhīlā, 34	plīhan	beautyberry, 37
pelt	spleen, 39	priyangu
carman, 17	powdered earthenware	beauty berry, 41
periploca of the woods	crockery	probe
meṣaviṣāṇa, 39	kapālacūrņa, 25	śalākā, 44
perploca of the woods	prabha	procedures
meṣaśṛṅga, 47	shine, 43	kriyā, 15, 16, 19
phala	practical purposes	prolapse
fruits, 17	prayojanavat, 18	māṃsanirgama, 46
phena	pragāḍha	prota
guttlefich bone 47	stooped 10	C21170 2F

pṛṣata	flavours, 16, 29	resin
chital deer, 33	juices, 40	niryāsa, 17
pṛthakparṇī	the blood of birds	restrictions
Hare Foot Uraria,	and animals, 37	yantraṇā, 45
47	rasakriyā	rigid
puffed up	inspissation, 42	sthirā, 45
śopha, 26	rasāñjana	rim of a wheel
pupil	elixir salve, 37, 41,	cakradhārā, 24
dṛṣṭi, 36, 44, 45	42	Rim-join
purification	Elixir-salve, 37	nemīsandhānakaḥ,
saṃśodhana, 16	rauhita	23
puruṣa	extract of rohu	rim-join
human being, 16,	carp, 37	nemīsandhānaka, 24
18	Ready-Split	rodents
puṣpa	nirvedhima, 23	mūṣika, 14
flowers, 17		rohīta
put it back together	realgar	Rohīta tree, 41
pratisandhā-, 28	manaḥśilā, 38, 41,	Rohīta tree
puṭāhvaya	42, 47 received a benediction	rohīta, 41
taken hot, 41		root
puṭākhya	kṛtamaṅgala, 21	mūla, 16
enclosed roasting,	red arsenic	roots
40	manaḥśilā, 37, 38	mūla, 17
puṭapāka	Red chalk	rough
enclosed roasting,	gairikah, 46	khara, 45
42	red gourd	royal jasmine
medicines cooked	bimbī, 34	jātī, 47
in a crucible, 36	red velvet mites	rtu
iii a ci acibic, 30	indragopa, 17	season, 18
racket-tailed drongo	reduced	rudhira
bhṛṅgarāja, 33	hīna, <b>2</b> 8	blood, 17
rāgin timira	Reduced-ear	
bloodshot	hīnakarṇa, 23	ruj illness, 38
blindness, 41	regimen	intess, 30
rāgiņi timire	ācāra, 16	sādhubaddha
bloodshot	karma, 45	well joined, 28
blindness, 43	remedies	sādhya
rainy seasons	oṣadhi, 18	curable, 36
varṣā, 17	oṣadhī-, 16	saindhava
rajana	remedy	Sind salt, 36, 38
turmerics, 38	pratīkāra, 36	Sindh salt, 41
raktabaddha	replica elephants,	Sal tree
obstructed by	horses, bulls and	śālā, 37
blood, 25	parrots	śālā
rasa	kṛtrimahastyaśv-	Sal tree, 37
ovtracte 41	ahalīvardašukādi 21	éalākā

probe, 44	sāra	taila, <mark>27</mark>
salilotthita	essence, 17	shine
conch, 42	śārīravad	prabha, 43
water-born, 42	physical, 18	shooting pain
saliva	sarīsṛpa	śūla, 45
śleșman, 34	creepy-crawlies, 14,	shoots
salt	17	pallava, 44
nadīja, 37	sāriva	udbhid, 17
samāñjana	Indian sarsaparilla,	shrubs
same collyrium, 41	38, 46	vīrudh, <mark>17</mark>
same collyrium	sarpis	siddhārthaka
samāñjana, 41	ghee, 26, 36	white mustard, 46
saṃkṣipta	śastrakṣata	śigru
Compressed, 23	cutting with a	horseradish tree, 42
compressed, 24	blade, 36	simultaneous
samplava	śātakumbhī	samyak, 44
clusters, 17	gold, 46	Sind salt
saṃrambha	śatāvarī	saindhava, 36, 38
inflamed, 26	wild asparagus, 43	Sindh salt
saṃśamana	sauvīraka	saindhava, 41
pacification, 16	stibnite, 37	sinews
saṃśodhana	Scarification	snāyu, 18
purification, 16	lekhana, 16	sirā
samudraphena	scarification	duct, 22
cuttlefish bone, 38	lekhya, 25	ducts, 18, 24
saṃvatsara	scavenging	sirāvedha
year, 18	pratuda, 26	blood-letting, 36
samyak	scramberry	siris
simultaneous, 44	tālīśa, 37	śirīṣa, 37, 47
sañcaya	tālīśapatra, 38	śirīṣa
accumulation, 18	season	siris, 37, 47
sandal	ṛtu, <b>1</b> 8	sīsaka
sugandhi, 39	sections	lead, 23
sandhāna	adhyāya, 19	sitā
joins, 23	seed-eating	elixir-salve, 37
sandhi	vișkira, <mark>26</mark>	white sugar, 47
joins, 24	seeing smoke	skin
joints, 18	dhūmadarśin, 36	tvak, 17, 18
sannipāta	seka	śleṣman
congested	irrigation, 36	saliva, 34
humours, 19	separate	slice of flesh
sap	muktvā, 44	vadhra, 27
kṣīra, 17	septic	slow-acting poison
sapāṇa	pāka, 25	antidote
off his hand 40	cocamo oil	dījeīmieāri ar

small insects	srotoja	śūla
kunta, 17	kohl, 38, 47	shooting pain, 45
snāyu	stabdha	sun
sinews, 18	stiff, 24, 26	hari, 44
sneha	stalk	sunivișța
0il, 17	vṛnta, 37	very intent, 27
sniffing	stationary	supernatant layer
ucchiṅgana, 44	sthāvara, 16, 18	agra, 41
snuff	steeped	suppurating
nasya, 32	pragāḍha, 40	srāva, 24
solid	sthāvara	suppuration
styāna, 44	stationary, 16, 18	srāva, 26
soma creeper	sthirā	surāmaṇḍa
somalatā, 34	rigid, 45	decanted liquor, 25
somalatā	stibnite	svabhāva
soma creeper, 34	añjana, 41	inherent factors, 19
śonita	sauvīraka, 37	svābhāvika
blood, 39	Stick-ear	inherent, 16
śonita-pitta, rakta-pitta	yaṣṭīkarṇa, <mark>23</mark>	svarasa
Blood-bile, 39	stiff	expressed juice, 37
śonitena	stabdha, <b>24</b> , <b>26</b>	juice extract, 17
with blood, 45	stirred with goat's milk	svastivācana
śopha	ajākṣīrārdita, 46	blessings
puffed up, <mark>26</mark>	strength	pronounced, 21
spiders	bala, 16	svayaṇṇgupta velvet bean, 37
lūtā, 14	strong mallow	śvayathu
spikenard	atibalā, 40	swelling, 22
nalada, 33, 42	stupor	svedaja
spiral	mūrcchā, 34	born of sweat, 17
āvarta, 43	styāna 	swelling
spirits	solid, 44	śvayathu, 22
madirā, 38, 41	substance	śyāmā
spleen	dravya, 29	beautyberry, 34
plīhan, 39	substrate	syanda
splitting	āśrayin, 16	watery eye, 43
bhedya, 25	รนิсī	• •
sraj	needle, 44	taila
garlands, 32	suffering	sesame oil, 27
srāva	duḥkha, 16	tailasugandhi
suppurating, 24	sugandhi	the fragrant one in
suppuration, 26	sandal, 39	oil, 39
śreyas	sūkarākṣitā	tailvaka
welfare, 13	pigs' eye, 46	prepared with
srotas	sukha	tilvaka, 36
kohl, 40	comfort, 18	tainted
	71	

duṣṭa, 25	timira	ираѕ́ата
Take away	blindness, 43	pacification, 18
āhārya, 23	partial blindness,	used
taken hot	39	nișevita, 39
puṭāhvaya, 41	toys	uśīra
tālīśa	krīḍanaka, 21	cuscus grass, 41, 42
scramberry, 37	traivṛta	utpala
tālīśapatra	prepared with	blue lotus, 37
scramberry, 38	turpeth, 36	water-lily, 34
tāmra	treatment	utpalabhedyaka
copper, 46	kriyā, 18, 42	Lotus-splittable, 23
tāmracūḍa	tree turmeric	utpīdita
cock, 40	dārvī, 37	injured, 43
tarpaṇa	trice	utsādana
balm, 36, 41, 42	kāṣṭhā, 17	dry rubs, 32
tatra	triphalā -	, , ,
	the three fruits, 41	vadhra
in those cases, 39	three fruits, 36, 38	flesh, 28
temperament	trivṛt	slice of flesh, 27
prakṛti, 16	turpeth, 39, 40	vaiḍūrya
the blood of birds and	turmeric	beryl, 47
animals	haridrā, 42	vaiṣamya
rasa, 37	turmerics	irregularities, 16
the fragrant one in oil	rajana, 38	vakrabhrūnetra
tailasugandhi, 39	turpeth	bent brow and eye,
the lap of a man	trivṛt, 39, 40	45
kumāradharānka, 21	tuttha	vaktra
the method of piercing	blue vitriol, 41	ends, 46
and joining the ear	tvak	vallīkarņa
karṇavyadhaband-	skin, 17, 18	Creeper-ear, 23
havidhi, 21	SIGIL, 17, 10	vallūraka
the science of life	ucchingana	Dried Flesh, 23
āyurveda, 13	sniffing, 44	vanaspati
the three fruits	udaśvit	fruit trees, 17
triphalā, 41	watered	non-flowering tree,
the three spices	buttermilk, 35	42
vyoṣa, 38	udbhid	varga
the time for therapies	shoots, 17	collection, 18
kriyākāla, 18	udvartana	varṇa
therapies	ointment for	complexion, 16, 29
karman, 19	rubbing the ear, 27	varṣā
three fruits	unsteadiness of the	rainy seasons, 17
triphalā, 36, 38	humours	varti
three-quarters of an	doṣapariplava, 45	wick, 22
hour	upahita	vartti
muhūrta 18	combined ac	wicks 15

vasā	flowering trees, 17	wick
Fat, 40	vṛnta	varti, 22
vāta	stalk, 37	wicks
wind, 23	vṛṣabha	vartti, 47
veda	bull, 33	wild animals
knowledge, 13	vyadha	vyāla, 17
vedanābhighāta	piercing, 44	wild asparagus
pain and injury, 13	vyadhana	śatāvarī, 43
velvet bean	piercing, 25	wind
svayaṃgupta, 37	vyadhi	vāta, 23
velvet leaf	disease, 18	with blood
pāthā, 42	vyākhyāta	śonitena, 45
velvet-mite	intended, 19	wood apple
indragopa, 34	vyāla	kapittha, 37
very intent	wild animals, 17	wood apple
•	vyāyojima	kapittha, 37
suniviṣṭa, 27	Multi-joins, 23	Worms
vidagdha	vyoṣa	
inflamed, 36	the three spices, 38	kṛmi, 17
vidaṅga	and appear, 30	
embelia, 42	wasted	yakṛdrasa
vidruma -	kṣīṇa, <b>26</b>	liver extract, 38
coral, 47	water-born	yakṛt
vikalpa	salilotthita, 42	liver, 38, 39
options, 24	watered buttermilk	yantraṇā
particulars, 18	udaśvit, 35	restrictions, 45
vilocana	water-lily	уāруа
misshapen eyeball,	utpala, 34	alleviated, 39
45	watery eye	mitigable, 43
vipakva	syanda, 43	mitigatible, 36
matured, 37	welfare	yaṣṭīkarṇa
vīrudh	śreyas, 13	Stick-ear, 23
shrubs, 17	well joined	yavaudana
viṣāda	sādhubaddha, 28	cooked barley, 43
depression, 16	white mustard	year
vișkira	siddhārthaka, 46	saṃvatsara, 18
seed-eating, 26	white siris	yoga
vital energy	kinihī, 42	compounds, 36
ojas, 16	white sugar	yojayed
voḍhāra	sitā, 47	may repair, 27
bearers, 32	white teak	yuga
vṛkṣa	kārśmarī, 37	yuga, 18
·		911811, 20
	72	
	73	

## **Appendix**

### On digital critical editions

- Price, Kenneth M. (2013), 'Electronic Scholarly Editions', in Ray Siemens and Susan Schreibman (eds.), *A Companion to Digital Literary Studies* (Chichester, UK: John Wiley & Sons, Ltd), 434–50.
   DOI: 10.1002/9781405177504.ch24, URL, accessed 04/07/2021.
   A survey of the field in 2013, with a focus on the presentation of electronic texts rather than on critical editing as such.
- Moureau, Sébastien. (2015), 'The Apparatus Criticus', in Alessandro Bausi et al. (eds.), Comparative Oriental Manuscript Studies: An Introduction (Hamburg: Tredition), 348–52, ISBN: 978-3-7323-1768-4, URL, accessed 04/07/2021.
   Useful discussion about the apparatus criticus in general, and an evaluation of the plus and minus points of positive and negative apparatuses.
- Burghart, Marjorie (2016), 'The TEI Critical Apparatus Toolbox: Empowering Textual Scholars through Display, Control, and Comparison Features', Journal of the Text Encoding Initiative, 10/Issue 10. DOI: 10.4000/jtei.1520, URL, accessed 12/12/2017.
   Discussion of a software tool, including the handling of positive and negative apparatus. Makes the assumption that online displays are notational variants only.
- Burghart, Marjorie (2017), 'Textual Variants', in Marjorie Burghart et al. (eds.), Digital Editing of Medieval Texts: A Textbook (DEMM), URL, accessed 04/07/2021.
  - Discussion of how to express various kinds of apparatus in TEI.
- Bausi, Alessandro et al. (2015), Comparative Oriental Manuscript Studies. An Introduction (Hamburg: Tredition). DOI: 10.5281/ZENODO.46784.

A huge book that disappointingly says nothing at all about Sanskrit manuscripts. Nevertheless there are many interesting case studies and remarks applicable to the Indian manuscript tradition.