PERALL NGULAR The Septum of the new nose. . Skin taken from the forehead. inided. the Ala of the new nose. 6.66. The Incision into which the edge ratta of the Cast of Husbandmen. He was a Tippoo, who cut off his nose; and one of his hand e H.E.J. Company. For above 12 months he r ir near Poona. This operation is not uncomm men M. Tho Oruso, and M. James Findlay. to the stump of the nose, so as to make a nose e wax which is then of no further use and the between the Oyes. This slip preserves the circle p of the nose is next pared off, and immed indegoes along the upper lip. The skin is now re so that a nose is formed with a double hold of water, and four days, nore difsection

On the Plastic Surgery of the Ears and Nose

the 10th day

The Nepalese Version of the Suśrutasaṃhitā

D. Wujastyk, J. Birch, A. Klebanov, M. K. Parameswaran, M. Rimal, D. Chakraborty, H. Bhatt, V. Lele, P. Mehta



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The Suśruta Project is funded in part by funding from the Canadian Social Sciences and Humanities Research Council. Le projet Suśruta est financé en partie par des fonds du Conseil canadien de recherches en sciences humaines. Insight Grant no. 435-2020-1077.



Social Sciences and Humanities Conseil de recherches en Research Council of Canada

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Bibliographic information published by the Deutsche Nationalbibliothek

The Deutsche Nationalbibliothek lists this publication in the Deutsche Nationalbibliografie; detailed bibliographic data are available in the Internet at http://dnb.dnb.de.



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Published at Heidelberg Asian Studies Publishing (HASP), 2023

Heidelberg University / Heidelberg University Library Heidelberg Asian Studies Publishing (HASP), Grabengasse 1, 69117 Heidelberg, Germany https://hasp.ub.uni-heidelberg.de

The electronic open access version of this work is permanently available on the website of Heidelberg Asian Studies Publishing: https://hasp.ub.uni-heidelberg.de urn: urn:nbn:de:bsz:16-hasp-1203-0

doi: https://doi.org/10.11588/hasp.1203

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Typeset by Dominik Wujastyk using X=AT=X, with T=X Gyre Pagella and Sanskrit 2003. The critical edition was typeset using Saktumiva and reLEDMAC.

Cover illustration: B. Longmate (1794) "A Curious Chirurgical Operation," The Gentleman's Magazine and Historical Chronicle, p. 883. Creative Commons Public Domain Mark 1.0.

ISBN: 978-3-948791-63-6 (Paperback) ISBN: 978-3-948791-62-9 (PDF)

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Preface

The Compendium of Suśruta (Sanskrit: Suśrutasaṃhitā) is a world classic of ancient medicine, comparable in age and importance to the Hippocratic Corpus and the Huangdi Neijing. It is a substantial treatise, written in the Sanskrit language, that presents a systematic, scholarly form of medicine for diagnosing and treating the many ailments that patients presented in South Asia two thousand years ago. The Compendium is a text written by physicians for physicans and is one of the founding treatises of the indigenous medical system of India, Ayurveda. As such, it still informs indigenous medical practice in India and Ayurvedic complementary and alternative medicine internationally.

Amongst historians of medicine, *The Compendium* is perhaps most famous for its passages describing remarkable forms of surgery. These techniques were used in South Asia and beyond: *The Compendium*'s method of couching for cataract circulated in China in the seventh century and a form of facial plastic surgery described in *The Compendium* was witnessed by British surgeons in India in the eighteenth century and subsequently formed the basis of certain types of facial reconstruction as practised even today.

In 2007, a previously unknown manuscript of *The Compendium* from the uncatalogued collections of the Kaiser Library in Kathmandu was announced in a scholarly publication. This manuscript, MS Kathmandu KL 699, is datable to 878 ce, almost a thousand years before any other known manuscript of the work. Furthermore, it became clear that two other manuscripts in Kathmandu were close copies of KL 699, albeit from later dates.

These exciting discoveries provide a kind of time machine by which we can directly examine the medical thought of Nepalese physicians of the ninth century. We can also start to see the changes

¹ Dimitrov and Tamot 2007.

and additions to the text that have happened in the last millennium. Almost all of these later changes to the text have tended to obscure its clarity and directness, banalizing the language and inflating the recipes. Through the critical study of MS Kathmandu KL 699 and its companions we are beginning to recover an older, more authentic and more meaningful version of this medical classic.

This book presents a single chapter from *The Compendium* that is of unique interest to medical history. The book also lays out the basic parameters and methods of the project that will also apply to future publications. The members of the Suśruta Project have already read, edited and translated several other chapters. These materials are already available in digital format through the project website.² It is our intention to continue to publish both digitally and in print. We are currently preparing a critical edition and annotated translation of the *Kalpasthāna*, *The Compendium*'s book on plant and animal poisons and their remedies.

Beyond the present funded project, the important work of editing and translating the other five books of the treatise remains for the future. Therefore the present book aims to establish an academically sound model for disseminating this older version of *The Compendium* to an international audience that will pave the way for future editions of the rest of the work.

When one sees an authorial collaboration such as the present book, it is natural to be curious about who did what. The bulk of the words of this book were co-written by myself and Jason Birch. Andrey Klebanov contributed an important section describing the manuscripts; Madhu K. Paramesvaran wrote about the evolution of recipes through time. The text of the translation was a fully collaborative effort, arising out of weekly seminar meetings that we all attended and to which we all contributed. Usually, Jason or I would present a first draft, and that was discussed word by word, together with re-visiting difficult manuscript readings and refining the critical edition. Additionally, Vandana Lele, Harshal Bhatt, Madhusudan Rimal, Deepro Chakraborty and Paras Mehta all spent many hours carefully transcribing the old Nepalese manuscripts so that the text could be edited using the methods of Digital Humanities. The book could not have been written without the participation of the whole project team.

² Wujastyk et al. 2021-.

I would like to thank project participants who have also contributed to other aspects the project at different times, including Jane Allred, Devayani Shenoy and Gauri Vyaghrambhare.

The publisher's referees, Vitus Angermeier and Philipp Maas, contributed comments and corrections that have improved the book: my sincere thanks to them for their knowledge and precision.

On a personal note, I would like to thank my friends and former colleagues from the University of Vienna, especially Karin Preisendanz, Philipp Maas and Alessandro Graheli, from whom I learned and continue to learn so much about Indology and textual criticism, and my wife Dagmar Wujastyk, discussions with whom inform and improve all my scholarly efforts.

The project owes its existence to Canada's Social Science and Humanities Research Council who have generously funded the work through an Insight Grant. I am grateful to my academic home, the University of Alberta, for hosting and supporting the project.

— Dominik Wujastyk L-Imġarr, 2023

1 Introduction

The Compendium of Suśruta (Suśrutasaṃhitā) is amongst the most important treatises on medicine to survive from the ancient world. It has been studied seriously by historians since it first became available in print in the mid-nineteenth century.³ Meulenbeld listed forty-four editions of the work since the first edition of 1835 by Gupta in Calcutta, and eight translations, starting from the Latin translation of 1844 by Hessler.⁴ Many more translations have appeared in recent decades and reprints of the early twentieth-century editions continue to be reprinted frequently.

The study of this work has yielded rich historical discoveries about the earliest history of surgery, ancient pharmacology, toxicology and many other social and medical topics. Yet there remain fundamental unanswered questions about the history of the text itself and about related issues in the history of medicine in Asia.⁵

In January 2007, a manuscript of the <code>Suśrutasaṃhitā</code> in the Kaiser Library, Kathmandu, previously unknown to contemporary scholarship, was brought to international attention by Dimitrov and Tamot. MS Kathmandu KL 699 is a Nepalese palm-leaf manuscript covering about two thirds of the Sanskrit text. It is dated to 878 ce, making it one of the earliest dated manuscripts known from South Asia. The manuscript has been declared by UNESCO to be part of the Memory of the World. ⁸

The newly-discovered manuscript in Nepal is related to two other early palm-leaf manuscripts in the National Archives in Kathmandu,

The editio princeps was that of Gupta (1835–36). A selection of prominent studies includes: Hoernle 1897; 1906*a,b*; 1907*a,b*; Strauss 1934; Singhal et al. 1972–82; P. V. Sharma 1975; Rây et al. 1980; Adriaensen et al. 1984; Yano 1986; P. V. Sharma 1999–2001; Valiathan 2007; and Meulenbeld's magnum opus HIML.

⁴ HIML: IB, 311 ff.

⁵ HIML: IA, 203–389.

⁶ Dimitrov and Tamot 2007.

⁷ Harimoto 2011: 87–88.

⁸ UNESCO 2013.

MS Kathmandu NAK 5-333 and MS Kathmandu NAK 1-1079. Klebanov has assembled compelling evidence for believing that these Nepalese manuscripts present a version of the text that was in wider circulation in northern India, especially Bengal, in the period up to about 1200 CE. Generally speaking, the Nepalese version of the Suśrutasamhitā is shorter and sometimes clearer than the versions commented on by Cakrapānidatta (fl. eleventh century) and Dalhana (fl. twelfth century). The version of the Suśrutasamhitā commented on by Dalhana has formed the basis of modern printed editions and translations, such as those of Yadavaśarman Trivikramātmaja Ācārva and others.¹⁰ Some of the changes in the text between the Nepalese version and what we might call "Dalhana's version," or "the vulgate version", consist of the addition and loss of numerous verses, changes to medical recipes, and reordering of chapters, especially in the *Uttaratantra* or last part of the work. 11 Lariviere hypothesized long ago, in a different context, that Sanskrit texts tended to continue to expand through the addition of new materials,

The process of addition to these compilations must have gone on for centuries. The hearers or readers of these compilations must have known other verses ... and it would be natural for them to include these verses in the compilation. This type of addition may have continued until a commentary on the collection was composed. A commentary would have served to fix the text. And the expansion of the text would have been more difficult after that.¹²

In the case of the *Suśrutasaṃhitā*, the Nepalese manuscripts appear to present us with the last recoverable snapshot of this stage of the work when it was still open to absorbing new materials, most notably the *Uttaratantra*, and before the text was fixed as a result of the authority of the major commentators, Cakrapāṇidatta and Dalhaṇa.¹³ It is

⁹ Klebanov 2010; 2021*a*.

¹⁰ Su 1915; Su 1938; P. V. Sharma 1999–2001. Note that Ācārya himself referred to this text as "Dalhaṇa's version" (see footnote 130 below).

¹¹ For discussion of "the vulgate," represented by Su 1938, see p. 27 below.

Lariviere 2003: xii, cited with agreement by Olivelle (2005: 51) in the context of legal literature and by Bronkhorst (2016: 62–63) in the context of epic literature. See the latter citation for further discussion of Sanskrit text formation between the empires.

¹³ The roles of earlier commentators including Jejjata, Gayadāsa and Candrata in

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in this sense that we use the expression, "Dalhaṇa's version," when referring to the vulgate text of the *Suśrutasaṃhitā*.

The present study offers a critical edition and annotated translation of the sixteenth chapter of the Ślokasthāna, the first book of the Nepalese version of the *Suśrutasamhitā*. This chapter is important in the history of Indian medicine because of its discussion of surgical methods for repairing torn ears and severed noses. In addition to discussing the manuscripts and published editions used in this new edition, the introduction of this study addresses some of the challenges of editing the Nepalese manuscripts and the salient differences between the Nepalese version of the Suśrutasamhitā 1.16 and the text as known to Cakrapānidatta and Dalhana. The notes to the edition incorporate alternative readings mentioned by the commentators. The annotations to the translation discuss the following topics: instances where the text is uncertain; non-standard spellings and syntax; the meaning of technical and obscure terms; relevant remarks by the commentators; ambiguities in the identification of medical ingredients, in particular, plant names; and the additional compounds, verses and passages in Dalhana's version of the text. In short, this is a pilot study for undertaking a complete edition and translation of the Nepalese version of the Suśrutasamhitā.

Importance of SS.1.16 in the History of Medicine

Simple forms of surgery have a long history in South Asia. In works datable to at least 1200 BCE we learn how a reed was used as a catheter to cure urine retention. ¹⁵ Cauterization too was described in the same ancient sources, to prevent wounds from bleeding. The *Atharvaveda*, in the early first millennium BCE, described the bones of the human body, showing early anatomical awareness in a religious context. ¹⁶ The Brāhmaṇa literature of the only slightly later period

closing the text and influencing Cakrapāṇidatta and Dalhaṇa remains an open research problem.

¹⁴ This book is called the *Sūtrasthāna* in later versions of the *Suśrutasaṃhitā*. Note that the *Suśrutasaṃhitā* itself used the name *Ślokasthāna* at several places, e.g., 6.42.61 (Su 1938: 721), 6.65.30 and 31 (Su 1938: 818), usually referring to identifiable passages in that part of the work. The name is also used in the *Ślokasthāna* itself, at 1.1.40 of the Nepalese version.

¹⁵ Zysk 1985: 70-71.

¹⁶ Translation by Hoernle (1907*b*: §43, §100). Further bibliography: HIML: IIB, 819.

contained more detailed descriptions of animal butchery in the context of religious sacrifice that involved the enumeration of internal organs and bones.¹⁷ This exemplifies an early Sanskrit vocabulary for internal parts of bodies. However, this is not the same as anatomical dissection, whose methods and intentions are quite different. As Keith pointed out long ago, the enumeration of the bones in the *Brāhmaṇas* was derived from correspondences with the numbering of various verse forms, not from anatomical observation.¹⁸ With the *Suśrutasaṃhitā*, we find ourselves in the presence of something quite different and far more sophisticated from the medical point of view, where the body was studied specifically for medical and surgical purposes.¹⁹ The text gives us a historical window onto a school of professionalised medicine, including surgical practice, that existed almost two millennia ago and which in its day was perhaps the most advanced school of surgery in the world.

The author of the *Suśrutasaṃhitā* described how a surgeon should be trained and how various operations should be done. There are descriptions of ophthalmic couching (the dislodging of the lens of the eye), perineal lithotomy (cutting for stone in the bladder), the removal of arrows and splinters, suturing, the examination of dead human bodies for the study of anatomy, and other procedures.²⁰ The author of the *Suśrutasaṃhitā* claimed that surgery was the most ancient and most efficacious of the eight branches of medical knowledge.²¹ Anecdotal discussion with contemporary surgeons suggests that many details in the descriptions could only have been written by a practising surgeon: it is beyond reasonable doubt that elaborate surgical techniques were a reality amongst those whose practices were recorded in the *Suśrutasaṃhitā*.²²

¹⁷ Malamoud 1996; Saha 2015.

¹⁸ Keith 1908.

¹⁹ Zysk 1986. The *Carakasaṃhitā* too has brief descriptions of surgical techniques, but the *Suśrutasaṃhitā* goes into greater detail.

²⁰ Wilson 1823; Mukhopādhyāya 1913; V. Deshpande 2000; Wujastyk 2003; Valiathan 2007; Narayana and Thrigulla 2011 and many other studies.

²¹ Suśrutasamhitā 1.1.15–19 (Su 1938: 4).

²² Leffler et al. (2020) provide a detailed discussion of the *Suśrutasaṃhitā*'s surgical technique in the case of ophthalmic cataract, with references for further reading. The manuscript account by Jack (1884) provides a fascinating quantitative comparison of traditional couching operations with his contemporary nineteenth-century methods (MS London Wellcome 3007).

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Torn ear-lobes

The *Suśrutasaṃhitā* described otoplasty for the repair of torn earlobes.²³ A similar, but not identical, procedure was described by Celsus in the early first century ce.²⁴ Majno, writing as a practising surgeon, noted that,²⁵

...through the habit of stretching their earlobes, the Indians became masters in a branch of surgery that Europe ignored for another two thousand years.

The different types of mutilated ear-lobe that the *Suśrutasaṃhitā* described are not always easy to understand from the Sanskrit: the illustrations supplied in Majno's text greatly help with the visualization of the most likely scenarios.²⁶

Rhinoplasty

One of the best-known surgical techniques associated with the $Su-\acute{srutasamhit\bar{a}}$ is rhinoplasty, the repair or rebuilding of a severed nose. The history of this operation has been discussed by Wujastyk, and a translation of the Sanskrit passage from the vulgate edition of the $Su\acute{srutasamhit\bar{a}}$ was given. This fascinating technique is certainly old in South Asia, having been witnessed by travellers from Niccolo Manucci in the seventeenth century onwards. Many witnesses, including the most famous, Cruso and Findlay, described an operation that differs from $Su\acute{srutasamhit\bar{a}}$ in that it takes the grafting skin from the forehead, not the cheek. But the operation witnessed by Thorburn in the nineteenth century is especially interesting, since the technique followed the $Su\acute{srutasamhit\bar{a}}$ exactly in taking flesh from the cheek, rather than the forehead.

²³ Shiffman 2013: 43 briefly summarized early otoplasty history. The comprehensive study of ears in the history of Indian culture by Bollée (2010) oddly omits reference to *Suśrutasaṃhitā*'s surgery, although it mentions the text's description of ear diseases.

²⁴ De Medicina, book VII, ¶8-9 (Spencer 1935-38: 3, 359-365).

²⁵ Majno 1975: 291.

²⁶ Majno 1975: 290–291; reproduced with permission in Wujastyk 2003: 92–93.

²⁷ Wujastyk 2003: 67–70, 99–100. See also HIML: IB, 327–328, note 186, for further literature and reflections. Once again, a similar but simpler technique was described by Celsus in *De Medicina* book VII, ¶10 (Spencer 1935–38: 3, 365–367).

²⁸ Manucci 1907-08: 2, 301.

²⁹ Longmate 1794: 883, 891 f.

³⁰ Thorburn 1876: 352–353.

As noted by Meulenbeld, none of the extant commentators – Jejjaṭa, Gayadāsa, Cakrapāṇi or Ḍalhaṇa – explained the technique in any detail beyond short lexical glosses.³¹ This suggests that the commentators may not all have known the technique at first-hand.

The skin flap

It is worth highlighting here a point of critical surgical importance: the continued attachment of the skin flap. One of the crucial innovations of the "Hindu Method" of nasal reconstruction, as observed and internationally reported in the eighteenth century, was that the skin flap taken from the face remained partially connected to its original location.³² This ensured the blood flow essential to keeping the skin alive while it healed in its new location.³³ The Sanskrit of the vulgate is ambiguous on this critical point and the wording of the Nepalese version is unclear. However, Dalhana clarified the meaning of the vulgate here by stating that when reading the expression "connected," one should understand "connected flesh".34 He thus indicated that he understood the flesh to be connected to the face.³⁵ Thus, we cannot know definitively at present whether the connection of the flap was known to the redactors of the Nepalese version, although it seems likely. It was probably known to the redactors of the vulgate, and was certainly known to Dalhana in the twelfth century.

Earlier in the chapter, in the context of ear-piercing and repair, the vulgate has a passage that is more explicit and conclusive. After listing the names and characteristics of different types of ear-lobe, the vulgate cites some summary verses from an unknown source.³⁶ The last of these verses says,

³¹ HIML: IB, 328. Dalhaṇa noted cryptically, on 1.16.27–31 (Su 1938: 81a), that a rather different version of the text, cast in śloka metre, was also known to him from other sources. Dalhaṇa's variant bears a resemblance to the description of the operation given in printed editions of the *Aṣṭāṅgaḥṛdayasaṇḥitā* at Utt.18.59–65 (Ah 1939: 841).

³² See Wujastyk 2003: 67–70.

³³ This surgical innovation distinguished the "Hindu Method" from sixteenth-century European methods associated with Gaspare Tagliacozzi and others (see, e.g., Carpue 1816: passim).

³⁴ Suśrutasaṃhitā 1.16.28 (Su 1938: 81).

³⁵ See p. 64 below.

^{36 1.16.11-14 (}Su 1938: 78).

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If no lobe exists, an expert may create an ear-lobe by scarifying and then using living flesh still attached to the cheek from which it has been sliced.³⁷

The commentator Palhana was even more explicit in his gloss on this passage:

"Living" [flesh] means "together with blood".38

Thus, <code>Dalhaṇa's</code> comment gives us unequivocal evidence for the concept of a living skin flap in the twelfth century, and it is almost certain that this is also what the text of the <code>Suśrutasaṃhitā</code> intended by the word "living."

There is one remaining historical problem. These specific verses, 1.16.11–14, are not present in the Nepalese version of the text. This suggests that they were part of a different tradition of practice with a verse literature that was integrated into the vulgate text of the $Su-srutasamhit\bar{a}$ at a time after the Nepalese version as recorded in 878 CE, but at the latest by the time of Dalhana in the twelfth century.³⁹

If we can assume that the descriptions of ear-surgery and rhinoplasty were part of a single professional tradition of surgical method, then the above passage, in the context of ear-lobe repair, strongly supports the idea that rhinoplastic surgery too was conducted with attention to keeping a living skin flap.

By the late first millennium, had the rhinoplastic technique moved from the professional competence of scholar-physicians (vaidyas) to that of barber-surgeons (Ambaṣṭhas and others)? Or perhaps the influence was in the other direction, and a technique known to practitioners elsewhere in South Asia in the first millennium was integrated into the text of Suśrutasaṃhitā. The rhinoplastic description consists of only five verses and they are written in the Upendravajrā metre, which is different from the rest of the chapter. The description's appearance at the very end of the chapter

^{37 1.16.14 (}Su 1938: 78): गण्डादुत्पाट्य मांसेन सानुबन्धेन जीवता । कर्णपालीमापालेस्तु कुर्यान्निर्लिख्य शास्त्रवित्। Cf. the translation of the whole passage by Wujastyk (2003: 94).

^{38 1.16.14 (}Su 1938: 78): जीवेति शोणितसहितेनेत्यर्थः।

³⁹ Another theoretical possibility is that what we have termed "a different tradition of practice" was in fact a separate ancient version of the *Suśrutasaṃhitā* that predated the Nepalese version and that included these verses. Study of more manuscripts of the *Suśrutasaṃhitā* may throw light on this issue, but it is unlikely that dated witnesses older than MS Kathmandu KL 699 will come to light, and this means that an older, separate transmission will necessarily remain a hypothetical construct.

– where text can be added easily –, its terseness, its ornate metre, and the paucity of the commentators' treatment could all be taken as pointing in this direction.

2 The Transmission of the Work

The Nepalese Version

In the present study and the other publications of our research group, we focus on the study of what we call the 'Nepalese version' of the $Su\acute{s}rutasamhit\bar{a}$. The primary rationale behind using this designation was outlined by Klebanov,⁴⁰ but we consider it necessary to reflect upon its meaning here, given the conceptual significance that this term occupies in our research. It is possible that in the course of our research, we will refine our understanding of this designation and, consequently, review and modify our current interpretation.

Put plainly, the 'Nepalese version' refers to a hypothetical text-critical reconstruction of the wording of the <code>Suśrutasaṃhitā</code> that is based primarily on the evidence of three ancient Nepalese manuscripts that we have briefly introduced above and that we will describe in more detail in a later section. We call these MSS "Nepalese" not just because they were preserved and discovered by modern scholarship in the Kathmandu Valley but also because we believe that they were produced in the same area. We conclude this because all three MSS are written in a specific variety of Indic script which was not used outside of the region.

Furthermore, we speak of a single "version" because these manuscripts attest to a specific line of transmission of the text. That is to say, in terms of stemmatic analysis they share a common ancestor or hyparchetype, while at the same time, they bear no signs of significant contamination. This hypothesis was first postulated by Klebanov (2010) and later reiterated by him (2021b) as the result of a systematic analysis of two complete chapters, SS 1.3 and SS 1.15, and several shorter excerpts from the *Suśrutasaṃhitā* transmitted in the Nepalese manuscripts. On the one hand, these studies highlighted that all three MSS preserve a highly uniform text with very few variations, virtually all of which can be explained as standard scribal er-

⁴⁰ Klebanov 2021a: 2-3.

rors or corrections. On the other hand, Klebanov (2010; 2021b) systematically compared the relevant textual excerpts with four printed editions, alternative readings reported by several commentators, parallel passages in other texts, and with a number of additional manuscripts of the *Suśrutasamhitā*. This analysis demonstrated that the text of the Suśrutasamhitā supported by the Nepalese MSS of our study differs evidentially from all these other sources. But the mere fact of Nepalese provenance does not guarantee that a manuscript transmits the Nepalese version of the Suśrutasamhitā. For example, Klebanov also established that in spite of its Nepalese provenance, MS Kathmandu NAK 1-1146,41 does not support the Nepalese version and need not be taken into consideration when reconstructing the readings of the latter's hyparchetype. Thus, we do not feel that it is justified to use the technical term "Nepalese recension," since at least two versions of the work are preserved in manuscripts from Nepal. Also, the word "recension" suggests conscious editorial intervention at some point in the transmission, for which we do not yet have evidence.⁴² At the same time, we do wish to indicate the provenance of the oldest witnesses.

More than two hundred manuscripts of the *Suśrutasaṃhitā* are preserved in different libraries across South Asia and until they have been studied and place into a stemmatic relationship with our present witnesses, any hard assumption about the regional character of the transmission line remains premature.⁴³ What can be said with certainty is that the Nepalese version preserves many archaic features of an early transmission of the *Suśrutasaṃhitā* and that some of these features have already been identified in other manuscripts of this work and have been studied briefly.

Our research group builds upon the above hypothesis about the existence of a distinct Nepalese version of the *Suśrutasaṃhitā* and concentrates primarily on the study of this text in its own right and, additionally, frequently compares it with the version of the *Suśrutasaṃhitā* promulgated by the late medieval commentator Dalhaṇa and recorded in the widely-used Su 1938. The present study of SS 1.16 also considers the readings found in Su 1939,

⁴¹ Rimal and Wujastyk 2022.

⁴² Editorial terminology in this area is not absolute: "recension," "version" and "redaction" are sometimes used interchangeably, or differently in various communities of scholars. See Roelli and Macé 2015: 164 ff.

⁴³ For a list of known manuscript copies of the *Suśrutasaṃhitā*, see the sources mentioned in footnote 122 below.

that reflects Cakrapāṇidatta's readings, and incorporates various observations made by both medieval commentators, Cakrapāṇidatta and Dalhaṇa, into the notes of the edition and some annotations of the translation.

The current study and several earlier publications furnish a catalogue of uniform features that are characteristic of the Nepalese version and set it apart from the vulgate version.⁴⁴ These features of the Nepalese version include orthographic variants, peculiarities in the structure and structuring elements, as well as the actual wording of the text. As argued elsewhere in this article, many of these variants appear to represent an archaic version of the *Suśrutasaṃhitā*. This is partly because they preserve a version of the text that appears to be less edited, that is, more rudimentary in content and original in expression, that in turn suggests that it precedes later editorial intervention. We also assign a high historical value to many Nepalese readings because they constitute an internally more consistent and coherent text that is at times further supported by external testimonia.

Additionally, we want to make it clear that we do not think that the Nepalese version provides a so-called original text of the Suśrutasamhitā. Rather, the Nepalese version is a witness to a hyparchetype, not the archetype, of the Suśrutasamhitā. The Nepalese version provides us with an intermediary node in the history of this work between the oldest reconstructable text and the vulgate version that was known to Dalhana in the twelfth century and that is reproduced in most printed editions of the Suśrutasamhitā. The oldest reconstructable text will only come into focus when all surviving witnesses for the work have been studied. Having said that, our belief is that the Nepalese version is certain to be closer to the oldest reconstructable text than are contemporary printed versions of the work. One of the reasons for this belief is simply that the Nepalese MSS give us physical evidence for the state of the work in the ninth century, which cannot be many centuries later than the original assembly of the work in the form we are familiar with, i.e., a work of five topical sections with a large added sixth section, the Uttaratantra, that has a somewhat independent character.

Earlier publications include Harimoto 2011; Wujastyk 2013; Birch, Wujastyk, Klebanov, Parameswaran, et al. 2021; Birch, Wujastyk, Klebanov, Rimal, et al. 2021.

To summarize: the evidence arising from our studies to this point leads us to think that the Nepalese MSS of this study provide access to a single line of textual transmission that goes back to a hyparchetype that predates the composition of all major commentaries on the $Su\acute{s}rutasamhit\bar{a}$ and that, due to its regional character, has suffered relatively little contamination. We term this hyparchetype the "Nepalese version."

The Versions of Cakrapāṇidatta and Dalhaṇa

The commentaries of Cakrapāṇidatta and Dalhaṇa, titled *Bhānu-matī* and *Nibandhasaṅgraha* respectively, are based on similar but not identical versions of the *Suśrutasaṃhitā*. Both versions differ significantly from the Nepalese version.⁴⁵ Dalhaṇa was aware of Cakrapāṇidatta's work and reiterated many of his predecessor's remarks, so the interpretation of the root text by these two commentators is, broadly speaking, consistent.⁴⁶ Dalhaṇa also had several manuscripts of the *Suśrutasaṃhitā* available to him, as we know because he frequently mentioned their variant readings.⁴⁷

In addition to the fine-grained issues raised by the relationship between these commentators, there are added issues introduced by the way the editors of the printed versions of these commentaries handled the texts. The most obvious difficulty is that Y. T. Ācārya and Śarman's text of the *Sūtrasthāna* as commented on by Cakrapāṇidatta (Su 1939) simply duplicated the main text of that section from Y. T. Ācārya and N. R. Ācārya's edition of Dalhaṇa's commentary (Su 1938).⁴⁸ This duplication of the root text in the two books cre-

⁴⁵ See HIML: IA 374–379 on these authors. Meulenbeld already noted that "the text of the *Suśrutasaṇhitā* in the [1939] edition of the *Bhānumatī* differs at many places from the text of the [vulgate edition of 1938]" and gave examples from the *sūtrasthāna* (HIML: IB, 496, note 76).

⁴⁶ HIML: IB, 499, n. 162.

⁴⁷ See HIML: IA, 377. Meulenbeld drew attention to Dalhaṇa's commentary on 5.8.24cd–25ab (Su 1938: 587) as a particularly striking example of such awareness (HIML: IB, 497, n. 112). In this passage, Dalhaṇa noted that certain readings known to the earlier commentators Jejjaṭa and Gayadāsa were, "not to be found in current manuscripts" (स च वर्तमानपुस्तकेषु न दश्यते).

⁴⁸ There are a few exceptions where Cakrapāṇidatta glossed a word or compound that is different to the one glossed by Dalhaṇa. For example, in SS 1.16.18, Cakrapāṇidatta glossed राजसर्षप whereas Dalhaṇa glossed गौरसर्षप. The editors reflected this in the root texts of the Bhānumatī (Su 1939: 130) and Nibandhasaṅgraha (Su 1938: 79) respectively.

ates the entirely misleading impression that both commentators had the same *Suśrutasaṃhitā* text before them.⁴⁹ However, there is much evidence, including in the chapter treated in the present study, that this was not the case.

To give a concrete example, Dalhaṇa commented on four verses, SS 1.16.11–14, as part of his root text, that Cakrapāṇidatta cited separately only in his commentary. Cakrapāṇidatta had introduced each verse with "some people say" (केचित्पठिन्ते). This clearly indicated that these verses were not in the version of the *Suśrutasaṃhitā* upon which he was commenting. But a century or so later they had become part of the main text that was read by Dalhaṇa. In spite of this, the editors Y. T. Ācārya and Śarman included these verses in their 1939 edition of the *Suśrutasaṃhitā* with Cakrapāṇidatta's commentary as if they had been part of the main text of the *Suśrutasaṃhitā* that Cakrapāṇidatta read. Such cases make it hard for the reader to clearly see that these two important commentators were responding to different versions of the *Suśrutasamhitā*.

Furthermore, the duplication of the root text is questionable in instances where Cakrapāṇidatta did not acknowledge or comment on some verses that appear in what we might call "Dalhaṇa's version" of the *Suśrutasaṃhitā*. In some cases, this is an *argumentum ex silentio* because it is possible that Cakrapāṇidatta may not have remarked on a verse when its meaning was obvious. However, in other cases, the commentarial convention of citing the first words of a new verse or passage suggests the absence of a verse in the root text of the *Suśrutasaṃhitā*.

For example, there is a prose passage at SS 1.16.18 that Cakrapāṇidatta commented on in his *Bhānumatī* (Fig. 2.1, left).⁵¹ It is followed by several verses also in the main text of the *Suśrutasaṃhitā* that elaborate on the content of the prose passage.⁵² Dalhaṇa commented on these explanatory verses (Fig. 2.1, right), citing keywords that show they all formed part of the main text of the *Suśrutasaṃ*-

⁴⁹ A similar situation exists with the edition of the *Yogasūtravivaraṇa* by Rama Sastri and Krishnamurthi Sastri (1952) that is printed with the base text of the *Pātañjalayogaśāstra* taken the edition of Āgāśe and Āpaṭe (1904) which is significantly different from that on which Śańkara was commenting (Maas 2013: 77–78).

⁵⁰ Su 1938: 78 and Su 1939: 128–129 respectively.

⁵¹ Su 1939: 130, i.e., अथाप्रदुष्तस्याभिवर्धनार्थम् ... निद्ध्यात्।. It is numbered Su.1.16.19 in Palhaṇa's Nibandhasaṅgraha (Su 1938: 79).

⁵² SS 1.16.19-23 in Su 1939, i.e., स्वेदितो ..., यवाश्व ..., तैलं ..., तेषाम् ..., वद्ध

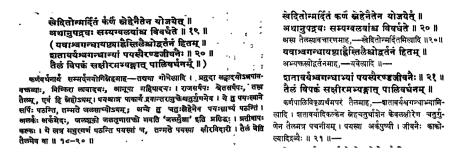


Figure 2.1: The text as it appears in Cakrapāṇi (left) and Dalhaṇa (right) (Su 1939: 130, Su 1938: 79).

hitā that was before him.⁵³ However, Cakrapāṇidatta's older commentary showed no awareness of the first few verses in this group, SS 1.16.19–21ab.⁵⁴ Apparently, they were not part of the text of the Suśrutasaṃhitā as he knew it. In spite of that, the editors printed these verses in their edition of Cakrapāṇidatta's work as if they were indeed part of the Suśrutasaṃhitā known to him. Incidentally, the editors remarked in a footnote that verses 20–21a were not in the Nepalese manuscript that they consulted. This shows that the version of the Suśrutasaṃhitā that Cakrapāṇidatta knew is similar to the Nepalese version, at least in this particular case.⁵⁵

A similar instance occurs in the edition of the *Bhānumatī* at SS 1.16.31, where the editors of the 1939 printed edition included a verse in parenthesis that was commented on by Dalhaṇa but not by Cakrapāṇidatta (see Fig. 2.2). ⁵⁶ This verse was almost certainly not in the text of the *Suśrutasaṃhitā* known to Cakrapāṇidatta. The manuscript on which the editors' edition of Cakrapāṇidatta's *Bhānumatī* commentary was mainly based, MS London BL H. T. Colebrooke 908, does not include the root text of the *Suśrutasaṃhitā*. ⁵⁷ Therefore, it requires a careful reading of the commentary itself to reverse-engineer,

^{53 1.16.19-23 (}Su 1938: 79-80).

⁵⁴ Su 1939: 130-131.

⁵⁵ Su 1939: 130, n. 2.

⁵⁶ The verse begins नाडीयोगं विनोध्थस्य. It is printed in the vulgate as 1.16.32 (Su 1938: 81), with Dalhaṇa's commentary. It is printed in parentheses as 1.16.31 in the edition of the Bhānumatī (Su 1939: 133).

⁵⁷ This observation is based on an examination of the opening passage MS London BL H. T. Colebrooke 908. The MS is described in IOLR: 1.5, 928, #2647. The section "The 1939 Edition," on p. 31 below, describes the sources that the editors used for that edition.

(नाडीयोगं विनौष्ठस्य नासासन्धानवद्विधिम्॥ य प्यमेव जानीयात् स राज्ञः केर्तुमर्हति ॥ ३१ ॥) इति सौश्रुते शल्यतन्त्रे सुत्रस्थाने कर्णस्यधवन्धविधिनीम पोडशोऽध्यायः॥ १६॥

Figure 2.2: Suśrutasaṃhitā 1.16.31 in the 1939 printed edition.

as it were, what its author, Cakrapāṇidatta, was seeing in the manuscripts of the *Suśrutasaṃhitā* that he had before him in the eleventh century. But there is no evidence that they included the verses SS 1.16.19–21ab and 31 that are printed in the Su 1939 edition as if they were present to Cakrapāṇidatta.

Cakrapāṇidatta and the Nepalese version

We have already seen one case where Cakrapāṇidatta's version of the <code>Suśrutasaṃhitā</code> was more similar to the older Nepalese version than to the later version of Palhaṇa. There is more evidence for this. For example, SS 1.16.5 of the Nepalese version begins with the compound दोषसमुद्यात; Cakrapāṇidatta began his comment on this passage by glossing this very expression. By contrast, Palhaṇa's version inserted two compounds, क्षिष्टिजिह्माप्रशस्तस्चीव्यधात् and गाढतरवर्तित्वात, before this.⁵⁸ It appears that Cakrapāṇidatta was not aware of the compounds that Palhaṇa saw in his later version, but was indeed reading a text similar to the Nepalese version.⁵⁹

If one looks beyond SS 1.16, there are further instances where the Nepalese version and the root text as read by Cakrapāṇidatta have the same reading, but Dalhaṇa mentioned it as an alternative that is, "read by others." For example, the Nepalese version of SS 1.1.22 begins तत्रास्मिञ्छास्रे..., which is also the reading commented on by Cakrapāṇidatta. However, Dalhaṇa commented on अस्मिञ्छास्रे and stated that "others read तत्रास्मिञ्छास्रे". 61

Another example is the reading of षष्ट्या विधानैः in Dalhaṇa's commentary on SS 1.1.8.1 that is not in his main text but that he ascribes

^{58 1.16.6 (}sic) (Su 1938: 77).

^{59 1.16.5 (}Su 1939: 126–127).

^{60 1.1.20 (}sic) (Su 1939: 17).

^{61 1.1.22 (}Su 1938: 5).

to "some others". 62 This reading is likely to be derived from the expression षष्ट्राभिधानैः in the main text of the Nepalese version, and to have been rewritten before Dalhaṇa's time because it was hard to understand. 63

Differences between the Nepalese and later versions of *Suśrutasaṃhitā* 1.16

Several differences between the text of the *Suśrutasaṃhitā* as reconstructed on the basis of the Nepalese MSS and as found in its multiple contemporary printed editions have already been pointed out in previous publications. For example, Klebanov listed differences in the chapter sequences as they affect the overall organization and structuring of themes and elements of the text. Others have explored variations in the frame story of the work as a whole. Elebanov discussed the interchangeable use of two titles for the first book of the text, namely "Ślokasthāna" and "Sūtrasthāna." He also discussed another feature of the Nepalese version, namely the additional colophons found at the end of each book and also at the end of each decade of chapters of the work.

The greater internal coherence of the Nepalese version

In an exemplary investigation of textual variants in the Nepalese version, Harimoto studied the classification of snakes in SS 5.4 and revealed that the Nepalese version preserves a text that is internally more consistent and coherent than the versions of the $Su\acute{s}rutasamhit\bar{a}$ found in different printed sources. ⁶⁷

Klebanov contributed some further general remarks and examples of substantive differences between the Nepalese and vulgate versions, and provided two more case studies.⁶⁸ The first dealt with the list of skin lesions associated with urinary disease.⁶⁹ Their

^{62 1.1.8.1 (}Su 1938: 3).

⁶³ See the discussion by Birch, Wujastyk, Klebanov, Rimal, et al. (2021: 4–5).

⁶⁴ Klebanov 2021a: 27 f.

⁶⁵ Wujastyk 2013; Klebanov 2021a: 28-32; Birch, Wujastyk, Klebanov, Parameswaran, et al. 2021; Birch, Wujastyk, Klebanov, Rimal, et al. 2021: 2-4.

⁶⁶ Klebanov 2021a: 32-44.

⁶⁷ Harimoto 2011: 101-104.

⁶⁸ Klebanov 2021a: 44-55.

⁶⁹ प्रमेहिपटका in the Nepalese spelling.

signs and pathogenesis are described in the *Nidānasthāna* and their treatment in the *Cikitsāsthāna*.⁷⁰ This list of skin lesions exemplifies a case where the Nepalese version of the *Suśrutasaṃhitā* is internally more coherent than that commented on by Dalhaṇa. The first commentator to identify the problem in this passage that gave rise to the incoherence we see in Dalhaṇa's text was Gayadāsa (fl. ca. 1000), who proposed a textual conjecture that corresponds to the reading of the Nepalese version.⁷¹ It looks as if Gayadāsa had both a text corresponding to the Nepalese version as well as the less coherent version in the manuscripts before him; although he proposed the reading of the Nepalese version, by Dalhaṇa's time the less coherent version had become the accepted version of the text.

The second case study by Klebanov focussed on the variation in the list of bodily winds (प्राण) in SS $_{3.4.7^2}$ This discussion too relied upon Gayadāsa's learned remarks. He commented on a version of the $Su\acute{s}rutasamhit\bar{a}$ corresponding to the Nepalese version and reported an alternative reading and its interpretation preferred by another ancient commentator, Jejjaṭa (fl. ca. 650-c.750). It is Jejjaṭa's reading that is known to modern readers of the $Su\acute{s}rutasamhit\bar{a}$ from the vulgate version of the text.

As the present study demonstrates, many features pertaining to the actual content of the Nepalese version continue to come to light as we proceed with our study of the manuscripts. On the whole, these observations indicate that many features of the Nepalese version of the *Suśrutasaṃhitā* are likely to go back to an early state of the work that was common to other versions of the compendium. However, there are also textual features, such as the text-structuring colophons concluding every tenth chapter, are likely to have occurred within a local Nepalese transmission of the text and it is unlikely that they will be attested in MSS from other regions, when a study of those is done. When evaluating the Nepalese readings historically, it is necessary to keep in mind that there is plentiful evidence that Dalhaṇa's version of the text also included extremely early readings and variants, suggesting that some of the readings accepted by Dalhaṇa were ancient,

⁷⁰ $Su\'{s}rutasamhit\bar{a}$ 2.6 (Su 1938: 289–294) and 4.12 (Su 1938: 454–455) respectively.

MS Kathmandu KL 699 was copied a century or more before Gayadāsa's time, so its version cannot have been influenced by Gayadāsa's innovations or suggestions. The reverse is more likely, although we are still uncertain of whether Gayadāsa was aware of the Nepalese version. Being from Bengal, it is not unlikely that he knew it.

⁷² Klebanov 2021a: 52-55.

if not original. Each case has to be weighed, and we are not yet in a position to make definitive jugements about the early divergence of textual recensions.

The detailed comparison that follows of 1.16 of the Nepalese version with Dalhaṇa's *Nibandhasaṅgraha* unfolded as the chapter was edited. The differences appear to emanate largely from attempts in Dalhaṇa's version to standardise, simplify or clarify the language that appears in the Nepalese version, to add and redact information, and introduce changes to recipes and therapies. Examples from 1.16 have been provided to demonstrate these general observations which, we expect, will be supported by a larger survey of the text.

Transpositions

Table 2.1 reveals the extent to which 1.16 of the Nepalese version was redacted to create the one known by Dalhaṇa. In this particular case, twenty-seven verses have been added in the vulgate. Eight of these verses (11–14, 21–22ab, 23cd–24, 32) are well integrated with the existing material in so far as they reiterate and elaborate on the content of passages in the Nepalese version. A block of nineteen verses (26.1–19) at the end of this chapter in Ācārya's edition of the *Nibandhasaṅgraha* (Su 1938: 80) was known by Dalhaṇa. These verses cover additional diseases of the ear-lobes, with their treatment and complications. Although Dalhaṇa conceded that some predecessors read them in this chapter, he concludes that they were not composed by sages and, therefore, should not be read. Ācārya probably included these verses because they were in his manuscripts, but Dalhaṇa's comments prompted him to place them in parentheses.⁷³ Be this as it may, this large block of verses is not present in the Nepalese version.

One can also see in Table 2.1 that verses 17 and 18 of the Nepalese version were transposed in the redaction of Dalhaṇa's version, where they are numbered 26 and 25 respectively. Although this only occurs once in 1.16, such transposing of verses and even their hemistiches is common in the redaction of other chapters of the *Suśrutasaṃhitā*.

⁷³ Ācārya (Su 1938: 80) did not state that these verses were absent in some or all of his manuscripts, which he usually did in a footnote if this was the case. A broader survey of manuscripts would be helpful for establishing whether these verses were part of the transmission of the *Suśrutasaṃhitā* in other parts of India. For example, they are present in MS Hyderabad Osmania 137-3(b).

Table 2.1: A Comparison of verses in 1.16 of the Nepalese and Palhaṇa's versions.

Nepalese version	Dalhaṇa's version
1	1
_	2
2-9	3-10
_	11–14
10-15	15–2 0
_	21–22ab
16	22cd–23ab
_	23cd–24
_	2 5
17.	26
- /	26.1-19
18 🖍	_
19–23	27-31
	32

Apart from the transposition and addition of verses, the redacting of the version known to Dalhana involved many small, yet sometimes significant, changes that are described below.⁷⁴

Changing Spelling, Sandhi and Syntax

The language of later commentators like Palhaṇa is more standardised, simplified or improved in comparison with the language that we find in the more archaic Nepalese version. Such differences include the standardising of spelling,⁷⁵ sandhi,⁷⁶ and verbal forms,⁷⁷ as well as interventions to simplify and clarify syntax.⁷⁸ These ef-

⁷⁴ The present study focusses on the commentary of Dalhana, but many of the same investigations could be made with regard to the surviving parts of the other early commentaries. See the discussion below, p. 33.

⁷⁵ For example, पत्ताङ्ग (SS 1.16.21) → पतङ्ग (1.16.29, Su 1938:81). For more information on this, see footnote 203 to the translation.

⁷⁶ For example, °हस्तेन ऋजु (SS 1.16.2) → °हस्तेन जुं (1.16.3, Su 1938: 76).

⁷⁷ For example, उन्नामियत्वा (SS 1.16.21) → प्रान्नम्य (1.16.29, Su 1938: 81); अवचूणेयीत (SS 1.16.21) → उपहरेत (1.16.29, Su 1938: 81).

⁷⁸ For example, शोणितबहुत्विनवेदनायां चान्यदेशविद्धमिति जानीयात् । निरुपद्रवता तद्देशविद्धलिङ्गम्। (SS 1.16.3) → शोणितबहुत्वेन वेदनया चान्यदेशविद्धमिति जानीयात्। निरुपद्रवतया तद्देशविद्धम् इति।

forts often involved splitting compounds.⁷⁹ In some instances, these changes improved the grammar,⁸⁰ or altered the meaning.⁸¹ However, some prefixes of verbal forms,⁸² case endings,⁸³ and indeclinables were changed for less apparent reasons.⁸⁴ There is also a tendency to replace uncommon words with generic ones,⁸⁵ to add indeclinables,⁸⁶ to omit the verb "to be" at the end of sentences,⁸⁷ and to introduce verses after a prose passage with the phrase भवति चात्र.⁸⁸

Technical Terms

There is evidence of standardising and altering technical terminology in versions of the *Suśrutasaṃhitā* subsequent to the Nepalese one. Two examples of this in *Suśrutasaṃhitā* 1.16 are the terms for "joins" (बन्य) and "a slice of flesh" (वप्र). The Nepalese version uses three terms for "joining" splits in the ear flaps and the flesh of nose (बन्य, सन्यान, सन्यि). Redactors of subsequent versions appear to have tried to standardise this terminology by replacing सन्यान and सन्यि with बन्य in prose passages. However, the use of the term सन्यान was retained in verses, perhaps because of the metrical challenges of

^{(1.16.4,} Su 1938: 76); आमतैलपरिषेकेणोपचरेत् (SS 1.16.6) → आमतैलेन परिषेचयेत् (1.16.7, Su 1938: 77); सुपरिगृहीतं (SS 1.16.10) → सुपरिगृहीतं च कृत्वा (1.16.15, Su 1938: 78); अनेन (SS 1.16.15) → स्नेहेनैतेन (1.16.20, Su 1938: 79).

⁷⁹ For example, यदच्छाविद्धायां सिरायाम् (SS 1.16.4) \rightarrow यदच्छया विद्धासु सिरासु (1.16.5, Su 1938: 76); धान्यास्रकपालचूर्णं (SS 1.16.10) \rightarrow धान्यास्रं कपालचूर्णं (1.16.20, Su 1938: 78).

⁸⁰ For example, सुरामण्डक्षीरम् (SS 1.16.10) → सुरामण्डं क्षीरम् (1.16.15, Su 1938: 78).

⁸¹ For example, क्षीणाल्पमांसः (SS 1.16.12) → क्षीणोऽल्पमांसः (1.16.17, Su 1938: 79).

⁸² For example, सम्बर्धितः (SS 1.16.8) \rightarrow विवर्धितः (1.16.9, Su 1938:77); निवेश्य (SS 1.16.10) \rightarrow सिन्नवेश्य (1.16.15, Su 1938:78); अवबध्य (SS 1.16.10) \rightarrow च बद्धा (1.16.15, Su 1938:78).

⁸³ For example, मासे (SS 1.16.2) → मासि (1.16.3, Su 1938: 76).

⁸⁴ Example of indeclinables include अपि (SS 1.16.13) → वा (1.16.18, Su 1938: 79); च (SS 1.16.16) → तु (1.16.23, Su 1938: 79); तु (SS 1.16.18) → च (1.16.25, Su 1938: 80).

⁸⁵ For example, मक्षयेत् (SS 1.16.15) → योजयेत् (1.16.20, Su 1938: 79); नह्येत् (SS 1.16.21) → बद्धा (1.16.29, Su 1938: 81).

⁸⁶ For example, [absent] (SS 1.16.6) → ₹ (1.16.7, Su 1938: 77); [absent] (SS 1.16.10) → तत्र (1.16.15, Su 1938: 78); [absent] (SS 1.16.12) → अपि (1.16.17, Su 1938: 79).

⁸⁷ The words भवित or भवित्त are omitted four times in Dalhana's version (1.16.10 (twice), 1.16.17 and 1.16.18 (Su 1938: 77, 79)).

⁸⁸ For example, [absent] (SS 1.16.11) → भवति चात्र (1.16.16, Su 1938: 79).

⁸⁹ For example, पश्चदशसन्धानाकृतयः (SS 1.16.9) → पश्चदशबन्धाकृतयः (see 1.16.10 (Su 1938:77)); दशकर्णसन्धिविकल्पाः (SS 1.16.9) → कर्णबन्धविकल्पाः (see 1.16.10 (Su 1938:77))

making such a change or perhaps because the verses had greater traditional authority. Also, the names of joins which incorporate सन्धान and सन्धि remained the same.⁹⁰

The Nepalese version contains the rather obscure term $\overline{4}$ 3 for the slice of flesh that a surgeon cuts from the cheek in order to construct a new nose. Modern dictionaries define $\overline{4}$ 3 as a leathern strap or a slice of bacon, Latter of which is more indicative of its meaning in the Nepalese version. This word was written out of subsequent versions, and it was not mentioned as an alternative reading by either Cakrapāṇidatta or Dalhaṇa, which suggests that its use and meaning may not have been known to them. However, $\overline{4}$ 3 was used by the author of the A5 $\overline{4}$ \overline{a} $\overline{$

Augmenting the Text

Apart from adding whole passages and verses (as seen in Table 2.1), redactors of subsequent versions augmented the text by expanding existing compounds and inserting new compounds and words. Within the microcosm of 1.16, adjectives and adverbs were inserted to clarify statements, 95 and phrases added to elaborate on diseases and treatments. 96 In particular, the characteristics and number of symptoms of a disease, as well as their reasons for arising, tend to increase in subsequent versions. For example, the Nepalese version (SS 1.16.5) said that the wick in a newly pierced ear should be removed because of aggravated humours or a culpable piercing whereas the version known to Dalhaṇa (1.16.6 (Su 1938:77))

⁹⁰ These names are नेमीसन्धानक, कपाटसन्धिक, and अर्धकपाटसन्धिक in SS 1.16.9 (cf. 1.16.10 (Su 1938:77)).

⁹¹ SS 1.16.20 and 23.

⁹² Apte: 1385; MW: 917.

⁹³ वभ्रम् (SS 1.16.20) → बद्धम् (SS 1.16.28, Su 1938: 81) and तद्वभ्रशेषं (SS 1.16.23) → तद-र्धशेषं (SS 1.16.31, Su 1938: 81).

⁹⁴ Utt.18.62 (Ah 1939: 841). This may suggest some independence between the text of the *Suśrutasaṃhitā* as transmitted to its direct commentators and as transmitted to Vāgbhaṭa. The word ব্য় is old, occurring, also in the form ব্য়, from the *Atharvaveda* onwards (EWA: 2, 521–522).

⁹⁵ For example, छिद्रे (1.16.2, Su 1938:76) → छिद्र आदित्यकरावभासिते (1.16.3, Su 1938:76); [absent] (1.16.2) → शनैः शनैः (1.16.3); [absent] (SS 1.16.3) → आशु (1.16.5, Su 1938:77).

⁹⁶ For example, धात्र्यङ्के (SS 1.16.2) → धात्र्यङ्के कुमारधराङ्के वा (1.16.3); [absent] (SS 1.16.2) → बालकीडनकैः प्रलोभ्य (1.16.3); [absent] (SS 1.16.3) → पिचुवर्तिं प्रवेशयेत् (1.16.5).

included two further reasons, namely, because of piercing with a painful, crooked and unrecommended needle or because of a wick that is too thick. Some of the split ear flaps in Dalhaṇa's version have additional characteristics, 97 and a list of four symptoms associated with incurable joins in the Nepalese version (SS 1.16.19) was increased to six in Dalhaṇa's version (1.16.10 (Su 1938:77)). Also, models of classifying symptoms were introduced in subsequent versions. For example, the Nepalese version (SS 1.16.4) lists the symptoms of mistakenly piercing a duct in the ear whereas the version known to Dalhaṇa (1.16.5, Su 1938:76–77) classifies these symptoms according to three ducts called कालिका, ममेरिका and लोहितिका, which results in some repetition of the symptoms mentioned.98

Transposing Words, Verses and Passages

A close comparison of the Nepalese version with the vulgate reveals changes in the order of words, sentences and verses. Examples of such transpositions occur in SS 1.16. In most cases, the changes in word order are insignificant and may be the result of different preferences in syntax or even scribal eye-brain-hand miscommunication. However, the transposition of verses and passages is usually the result of efforts at redacting the text to add new material. A good example of this is the transposition of SS 1.16.17 and SS 1.16.18 in the Nepalese version to 1.16.26 and 1.16.25, respectively, in Dalhana's. It seems that this transposition may have resulted from the insertion of new verses 1.16.23cd–24 and 1.16.26.1–19 in the latter.

⁹⁷ For example, पीठोपमपालिनिर्वेधिमः (1.16.9, Su 1938:77) → पीठोपमपालिरुभयतः क्षीणपुत्रि-काश्रितो निर्वेधिमः (1.16.10, Su 1938:77); इतराल्पपालिः संक्षिप्तः (SS 1.16.9) → उत्सन्नपालिरि-तराल्पपालिः संक्षिप्तः (1.16.10); तनुविषमपालिः (SS 1.16.9) → तनुविषमाल्पपालिः (1.16.10).

⁹⁸ In Dalhaṇa's version (1.16.5, Su 1938: 76–77), the symptoms of fever and pain (ज्वर, वेंद्ना) are repeated. This repetition does not occur in the Nepalese version. It is possible that this classification was not in the version of the Suśrutasaṃhitā known to Cakrapāṇidatta (1.16.4, Su 1939: 126) because he mentions that some read classifications of ducts at this point in the text and he cites verses from Bhoja on कालिका, ममेरिका and लोहितिका, but he does not gloss or comment on the passage known to Dalhaṇa.

⁹⁹ For example, अणुस्थूल॰ (SS 1.16.9) → स्थूलाणु॰ (1.16.10, Su 1938:77); तत्रैते दशकर्ण॰ (SS 1.16.9) → तत्र दशैते कर्ण॰ (1.16.10, Su 1938:77); नातिगाढन्नातिशिथिलं सूत्रेणावबध्य (SS 1.16.9) → सूत्रेणानवगाढमनितिशिथिलं च बद्धा (1.16.10, Su 1938:77); पूर्वन्दिक्षणं कुमारस्य वाम-क्कन्यायाः । प्रतनुं सूच्या बहलमारया (SS 1.16.2) → प्रतनुकं सूच्या बहलमारया। पूर्वं दिक्षणं कुमारस्य वामक्कन्यायाः (1.16.3, Su 1938:76).

Redacting Recipes and Elaborating on Treatments

Some of the additional text in subsequent versions of the *Suśruta-saṃhitā* introduces new ingredients in recipes and different procedures in treatments. In many instances, the new material merely clarifies or elaborates on the original but sometimes it changes the recipe or treatment significantly. An example of a suppletion that clarifies the text of the Nepalese version can be seen in SS 1.16.3 of Dalhaṇa's version (Su 1938: 76), which contains a statement that the physician should insert a wick of cotton after the ear has been pierced. This statement anticipates the instructions in the Nepalese version (SS 1.16.5–6) on removing the wick because of aggravated humours and replacing the wick with a thicker one every three days. In this case, the additional statement of Dalhaṇa's version elucidates the role of the wick in the procedure of piercing the ear.

A similar clarification occurs in Dalhaṇa's version at 1.16.18 (Su 1938:70),¹⁰¹ which reiterates the cure for an ear tainted by a humour that was described earlier in SS 1.16.7.¹⁰² The reiteration is quite apt because it follows a passage that outlines the various symptoms of ear disease arising from each of the three humours.¹⁰³ The author of the Nepalese version probably assumed that, after reading SS 1.16.12, the reader would refer back to SS 1.16.6 for the cure of an ear affected by a humour. However, in Dalhaṇa's version, the treatment is reiterated.

In Dalhaṇa's version of SS 1.16, there are two instances in which ingredients were added to recipes of medicines in the Nepalese version. The first is the recipe of an ointment that should be applied to a pierced ear that has not healed. In Dalhaṇa's version, the recipe was rewritten to include sesame seeds. A more significant change occurs in another recipe for an admixture of an oil that is supposed to be rubbed into a healthy ear to enlarge it. Dalhaṇa's version of the admixture has five additional ingredients, namely, prickly chaff-

¹⁰⁰ For example, [absent] (SS 1.16.2) → पिचुवर्ति प्रवेशयेत् (1.16.3, Su 1938: 76).

¹⁰¹ Corresponding to SS 1.16.13 in the Nepalese version, lines 59–61 of the edition below, p. 52.

¹⁰² Nepalese version SS 1.16.6, lines 16-17 of the edition below, p. 48.

¹⁰³ Palhaṇa 1.16.17 (Su 1938: 79), corresponding to Nepalese SS 1.16.12, lines 55-58 of the edition below, p. 52.

¹⁰⁴ Nepalese version SS 1.16.5 (lines 13–15, p. 48 below): यवमधुकमञ्जिष्ठागन्धर्वहस्तमूलैर्म-धुघृतप्रगाढैरालेपयेत् which become, in Dalhaṇa 1.16.7 (Su 1938: 77): मधुकैरण्डमूलमञ्जि-ष्ठायवतिलकत्कैर्मधुघृतप्रगाढैरालेपयेत्.

flower, Withania, milk-white, sweet plants and Indian ipecac.¹⁰⁵ It also has beggarweed instead of Indian kudzu.¹⁰⁶

The general tendency in re-formulating a recipe from the Nepalese version in later versions of the $Su\acute{s}rutasamhit\bar{a}$ was to preserve most ingredients of the original and to add new ones.

Comparative therapeutics

For at least two reasons, it is interesting to compare the text materials of the <code>Suśrutasaṃhitā</code> 1.16 with parallel materials found in other texts, including the <code>Carakasaṃhitā</code>, <code>Aṣṭāṅgasaṅgraha</code>, and <code>Aṣṭāṅgahṛdayasaṃhitā</code>. The latter two works, both ascribed to Vāgbhaṭa, can safely be dated to a period after the composition of the <code>Suśrutasaṃhitā</code> but before the commentator Dalhaṇa, thus throwing light on a period of development for which witnesses are limited and also broadly the period at which the Nepalese version was current. Secondly, the manner in which Vāgbhaṭa's works incorporate and modify materials from the <code>Suśrutasaṃhitā</code> can help us to understand how recipes and therapies evolved within specific lines of textual transmission.

The materials presented in *Suśrutasaṃhitā* 1.16 are parallel to those in two chapters of the *Aṣṭāṅgasaṅgraha*, namely *Uttarasthāna*, chapters 1 and 22, titled "bālopacaraṇīya" and "karṇarogapratiṣedha," and *Aṣṭāṅgaḥṛḍayasaṃhitā*, *Uttarasthāna* 1 and 18 with the same chapter names. ¹⁰⁷

First, let us return to the comments on the insertion of a wick that were mentioned above (p.23). The Nepalese version says nothing, while Dalhaṇa's version says "one should insert a cloth wick" (पि- चुवर्ति प्रवेशयेत्). A little later, both versions say, "one should remove the wick". ¹⁰⁸ It seems likely that the editor of Dalhaṇa's version added the initial phrase about inserting the wick because it seemed necessary to say that the wick was applied before being removed. The older Nepalese version seems slightly less coherent on this point, but

¹⁰⁵ Dalhaṇa's version 1.16.7 (Su 1938:77).

¹⁰⁶ Nepalese version SS 1.16.14 (lines 62–65, pp. 52–53): अर्कालकेवलातिवलानन्ताविदारीम-धुकजलशूकप्रतिवापन्तैलम्पाचिरत्वा which become, in Dalhaṇa 1.16.19 (Su 1938: 79): अ-र्कालकेवलातिवलानन्तापामार्गाश्वगन्धाविदारिगन्धाक्षीरशुक्काजलशूकमधुरवर्गपयस्याप्रतिवापं तैलम्वा पा-चिरत्वा

¹⁰⁷ As 1980: 619–629 and 734–744 and Ah 1939: 777–781 and 837–841, respectively. 108 तत्र वर्त्तिमपहृत्य in the Nepalese version (line 13), and the less clear तत्र वर्त्तिमुपहृत्य in Dalhaṇa's version (1.16.6 (Su 1938: 77)).

5

is perhaps represents an earlier version of the text on the principle of lectio dificilior potior. Both the Astāngasangraha and the Astāngahrdayasamhitā describe first inserting a thread in the pierced ear-lobe and subsequently replacing it every third day. 109 In this repect, they agree with Dalhana's version.

Secondly, it is interesting to consider again the recipe prescribed to treat the vitiation of humours in the pierced ear, mentioned above. A slightly modified recipe is found in the Aṣṭāṅgasaṅgraha 6.1.63 (As 1980: 626), but the same is not present in *Astāngahrdayasamhitā*. As pointed out above, Dalhana's version adds a paste of sesame seeds (तिलकल्क) to the recipe attested by the Nepalese version. In the parallel version of the recipe found in the printed editions of Astāṅgasaṅgraha, honey (मधु) is missing, but ghee (आज्य) is found. However, when checking the manuscripts of the Astāngasangraha, one of them reads आयैः instead of आज्यैः(यवैरण्डजटायष्टीमञ्जिष्ठाज्यैः प्रलेपयेत्).110 Interestingly, the paste of sesame seeds (तिलकल्क) of Dalhana's version is not present in the Astāngasangraha and is replaced by जटा, which is most probably spikenard.

Since the paste of sesame seeds is the main differentiating factor between the recipe versions attested by the Nepalese version and Dalhana's version, a general review of the contexts of its use in the major texts may be enlightening. References for the paste of sesame seeds are found in the texts shown in Table 2.2.

Text	Instances of sesame seed paste				
Carakasaṃhitā	6				
Suśrutasaṃhitā	11				
Aṣṭāṅgasaṅgraha	16				
Astāngahrdayasamhitā	5				

Table 2.2: Sesame seed paste (तिलकल्क) in different texts.

Among them, references with the combination of the paste of sesame seeds, ghee and honey are not rare either, with four instances each in Suśrutasamhitā and Astāngasangraha and two instances in Aṣṭāngahṛdayasaṃhitā. A combination of the paste of sesame seeds,

^{109 6.1.58 (}As 1980: 626) and 6.1.36 (Ah 1939: 780) respectively. 110 MS Mumbai, Asiatic Society 162, catalogue no. BD 263/1-6

ghee and honey has also been specifically quoted as a general healing recipe.¹¹¹

Another matter of interest is the combination of ghee and honey. We find many instances where this unique combination alone or in combination with other drugs is used in a variety of clinical contexts including those prescribed for the healing of ulcers or surgical wounds.¹¹²

This material evidence points to the general historical trend that medicines in the older Nepalese version of the *Suśrutasaṃhitā* present a central core recipe, consisting of a few drugs, that develops with ever-increasing complexity in the more recent versions of Dalhaṇa and later authors.

¹¹¹ E.g., Suśrutasaṃhitā 1.11.22ab (Su 1938: 49), Aṣṭāṅgasaṅgraha 1.38.21 (As 1980: 249–250) and Aṣṭāṅgahṛdayasaṃhitā 1.30.34 (Ah 1939: 357).

¹¹² E.g., Aṣṭāṅgasaṅgraha 1.37.30 (As 1980: 246) for क्षतकण्ड and Aṣṭāṅgasaṅgraha 4.17.22 (As 1980: 517) for healing of the surgical wound in उदस्रोग.

3 The Printed Editions

The careful survey of printed editions of the *Suśrutasaṃhitā* by Meulenbeld lists no fewer than 44 entries. These range from the first edition by Madhusūdana Gupta (1835) to editions in the 1970s. The number of reprints and editions since that time might almost double that number. Translations began with Hessler's Latin translation in **hess-1855** and continue up to the present in scores of publications in many languages. The

The vulgate

The great ayurvedic scholar Yādavaśarman Trivikrama Ācārya produced three successive editions of the *Suśrutasaṃhitā* with the commentary of Dalhaṇa, 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. We refer to the last of these editions as "the vulgate."

The 1915 edition was based on three manuscripts. The 1931 edition used another seven manuscripts plus two printed editions. For his final 1938 edition, Ācārya used a further three manuscripts. These sources were described by Ācārya as follows; we provide an overview in Table 3.1.

The sources of the 1915 edition

1 Calcutta, Royal Asiatic Society. Covers the *sūtra*, *nidāna*, *śārīra* and kalpa sthānas.

¹¹³ HIML: IIB, 311-314.

¹¹⁴ E.g., Zysk 1984; HIML: IIB, 314-315.

¹¹⁵ See also the studies of these editions by Klebanov (2021*a*: §1.2) and Wujastyk (2013: 143–144).

¹¹⁶ The following account is paraphrased from Y. T. Ācārya and N. R. Ācārya's own account of their sources (Su 1938: 22).

- 2 Jaipur, Pandit Gangādharabhaṭṭaśarman, 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 Puṇe, BORI library. With the *Nibandhasaṅgraha*. Covers the śā-rīrasthāna. 117
- 5 Puṇe, BORI library. With the *Nibandhasaṅgraha*. Complete. With some damaged folia.
- 6 Bombay, Asiatic Society. Incomplete. 118
- 7 Varanasi, the private library of Vaidya Tryambakaśāstrī. Covers the *cikitsāsthāna*. The variant readings of this MS were compiled by Prof. Guruprasādaśāstrī and supplied to Ācārya.
- 8 A printed edition together with the commentary *Suśruta-sandīpanabhāṣya* by Professor Hārāṇacandra Cakravārtti. Complete work. This is the 1910 Calcutta edition numbered "t" by Meulenbeld.¹¹⁹
- 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.¹²⁰

¹¹⁷ Not one of the three MSS of the *śārīrasthāna* described in H. D. Sharma 1939.

¹¹⁸ 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."

¹¹⁹ HIML: IB, 312; Bhattācārya 1910-17.

¹²⁰ HIML: IB, 311; Sena et al. 1886-93.

edition		1915						1931						193	8
source	1	2	3	1	2	3	4	5	6	7	8	9	1	2	3
sthāna															
$s\bar{u}$.	•							•	?		0	0	•		•
ni.	•			•				•	?		0		•	•	•
śā.	•				•	•	•	•	?		0		•		•
ci.		•						•	?		0		•		$ullet^{\dagger\dagger}$
ka.	•							•	?		0		•		
utt.		•	•					•	?		0				

Table 3.1: The sources of Yādavaśarman T. Ācārya's three editions: manuscript coverage (\bullet) and print coverage (\circ) .

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 kalpasthānas.
- 2 Bikaner, from the library of the Royal Palace, supplied by Paṃ. Candraśekharaśāstrin. Contains the commentary *Nyāya-candrikāpañjikāvyākhyā* by Gayadāsa. Covers the *nidānasthāna*. This is almost certainly MS Bikaner Anup 4390.¹²¹
- 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 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 तालपत्रपु-स्तके.

Evaluation

Estimates show that there are approximately 230 extant manuscript witnesses for the *Suśrutasaṃhitā*. Although most of these manu-

[†] Covers chapters 1–43 only. ^{††} Covers chapters 1–9 only.

¹²¹ See Wujastyk 2023.

¹²² This figure is arrived at by summing the MSS mentioned by Raghavan et al. (NCC: 39, 373–375) and in the NGMCP. The real figure could be many scores higher. Cf. the overview at Wujastyk et al. 2020.

scripts cover only parts of the whole work, they amount to approximately twenty times the evidence that was used by $\bar{A}c\bar{a}rya$ for his vulgate editions.

While the descriptions provided by Ācārya of his source materials seems at first to be moderately comprehensive, Table 3.1 reveals the underlying paucity of textual sources for these editions. At first, it appears that fifteen manuscripts were consulted. However, we quickly see that two of the sources were other people's printed editions, and one of those covered less than a quarter of the work (no. 9 of 1931). That reduces the manuscript base to 13 witnesses. Ācārya 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 partial manuscripts. One of them remains unidentified (6 of 1931). 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 third in size, but it still omits both of the longest sections, 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 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. The editors of the vulgate, Y. T. Ācārya and N. R. Ācārya, stated that this manuscript covered up to the ninth chapter of the *cikitsāsthāna*, but in fact it covers the whole work. 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.

¹²³ 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. 124 Su 1938: 22.

The 1939 edition

In 1939, Yādavaśarman Trivikrama Ācārya and Nandakiśora Śarman co-edited 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 (see Fig. 3.1).¹²⁵ The text was edited on the basis of the following sources.

Sources for the Bhānumatī

- 1. A printed edition. Covered the *Bhānumatī* up to chapter Su.sū.40. The siglum was मु for मुद्रित.¹²⁶
- 2. A manuscript in the India Office Library library provided through the Bhandarkar Oriental Research Institute in Pune. 127 This manuscript covered the *Bhānumatī* up to the end of the sūtrasthāna. The siglum was ह for हस्तिखत. 128

Sources for the Suśrutasamhitā

- A palm leaf manuscript from Hemarājaśarman's personal library.¹²⁹ The siglum was বা for বাঙ্ড্যন্ন.
- 2. His own published edition. The siglum was ड for डल्हणसंमतः पाठः.¹³⁰
- 3. Hārāṇacandra Cakravarti's published edition with his own commentary. 131 The siglum was हा.

¹²⁵ 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

¹²⁶ Sena et al. 1886–93. 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 yet available to our project. 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.

¹²⁷ At this time, manuscripts from Britain were routinely lent to scholars in India and vice versa.

¹²⁸ Wujastyk 2021; MS London BL H. T. Colebrooke 908 (PanditProject #109978, consulted on July 03, 2021).

¹²⁹ I.e., MS Kathmandu NAK 5-333.

¹³⁰ Su 1938. It is noteworthy that $\bar{A}c\bar{a}rya$ refers to his 1938 edition as representing "the Palhaṇa version."

¹³¹ Bhaṭṭācārya 1910–17.

. १ अध्यायः]

सुश्रुतसंहिता

११

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

अथास्य प्रत्येकाङ्गळक्षणसमासः—तत्र, शव्यं नाम विविधत्णकाष्टपाषाणपांशुळोहळोष्टास्थिवाळनखपूयास्रावदुष्टवणान्तर्गर्भशत्योद्धरणाथ षष्ट्या विधानः, यन्त्रश्रक्षशाराग्निप्रणिधानवणविनिश्चयार्थं चः शाळाक्यं नामोध्वेजन्नुगतानां श्रवणनयनवद्नन्नाणादिसंश्रितानां व्याधीनामुपश्मनार्थः, कायचिकित्सा नाम संवोङ्गसंश्रितानां व्याधीनां ज्वररक्तिपत्तशोषोन्मादापसारक्षप्रमेहातिसारादीनामुपश्मनार्थः, भूतविद्यां नाम देवासुरगन्धवेयस्यस्थापितृपिशाचनागत्रहाद्यपस्प्रचेतसां
शान्तिकर्मविहरणादित्रहोपश्मनार्थः, कौमारभृत्यं नाम कुमारभरणधात्रीक्षीरदोपसंशोधनार्थं दुएस्तन्यत्रहसमुत्थिनां च व्याधीनामुपशमनार्थमः, अगदतकं नाम सर्पकीटळ्तामूषकादिद्यविषव्यक्षनार्थे
विविधविर्दसंयोगोपश्मनार्थं चः, रसायनतकं नाम वयःस्थापनमायुर्मेधावळकरणं रोगापहरणसमर्थं चः, वाजीकरणतकं नामाव्यदुप्रक्षीणशुकरेतसामाण्यार्यनश्रसादोपचयजनननिसित्तं प्रहुर्वणजननार्थं च ॥ ६॥

श्वास्त्रविशेषात्र् शातुं प्रतिरुक्षणं संसेषेणाह—अथाखेखादि। एकमेकमशं प्रति रुक्षणानां समासः संसेषः प्रत्येकाञ्गरुक्षणसमासः। तृणादीनां, तथा दुष्ट्रवणस्य, तथाऽन्तगेत(भेशस्य)स्य उद्धरणार्थमिति प्रत्येकमुद्धरणशब्दः संवध्यते। दुष्ट्रवणस्यान्तस्तृणाद्याहरणार्थमित्यन्ये। षष्ट्या विधानैरिति द्विवणीयोक्तैरपत्पणाद्यै रक्षाविधानान्तैः; इस्थंभूतन्नक्षणे
तृतीया। जतु प्रीवाम्लं, जतुण उद्ध्वमूर्वजतु। प्राणादीखादिप्रहणाच्छिरःकपालदिप्रहणम्। उत्तरतन्त्रे प्रतिपादितकमप्राप्त्या ज्वरानन्तरमतीसारः पठितः, तस्यान्ते पाठोऽतिसारस्य सर्वाञ्चीणदोपारव्यलात्, अन्येपामि तन्मध्यपाठेन सर्वाञ्चीणदोषारव्यलप्रतिपादनाव्यतिकमं वदन्ति। शान्तिकमं विष्टहरणादिना प्रहाणां देवादीनामुपशमो यस्तदर्थः; यदि
वा ग्रह्णं ग्रहो देवानामावेशस्तदुपशमार्थम्। दुष्टस्तन्यप्रहसमुत्यितानामिति दुष्टस्तन्यन

Figure 3.1: A page of the 1939 *Bhānumatī* edition, showing the variant readings in the footnotes.

१ 'सर्वश्वरीरावस्थितानां व्याधीनां सुपश्चमकरणार्थ ज्वरशोफगुरुमरक्तिपत्तोन्मादापसार-भमेहातीसारादीनां च' इति सा. । १ 'देवदानव' इति सा. । १ 'विनायकनागग्रहोप-सृष्टचेतसां' इति सा. । ४ 'विषवेगोपश्चमनार्थं' इति सा. । ५ 'श्चक्ताप्यायन' इति सा. । ६ 'सृणादीनां श्चरान्तानां' इति सु. ७ 'अन्ये तु तस्यान्ते पाठेन' इति पा० । ८ 'श्चरणाद्द' इति सु. ।

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*. 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 Dalhaṇa. In spite of this, the editors largely reproduced the root text of Dalhaṇa's version. 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 his readings at the level of individual words and sentences (see Figure 3.1).

Ācārya noted in his introduction that the manuscripts containing 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 based on different readings of the root-text than those of Dalhaṇa. In many of these cases it was hard to infer what readings 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. 133

There is compelling evidence that Cakrapāṇidattas's $Bh\bar{a}numat\bar{\iota}$ commentary once covered the whole text of the $Su\acute{s}rutasaṃhit\bar{a}$. The loss of the rest of the work ranks amongst the greatest disasters in Āyurvedic literature. Remarkably, the whole $Bh\bar{a}numat\bar{\iota}$ 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. 135

¹³² HIML: IA, 374-375 and IB, 495-496.

¹³³ Su 1939: 3–4. See discussion by Klebanov (2021*b*: 7).

¹³⁴ HIML: IA, 375.

¹³⁵ Cordier 1903: 332.

4 The Manuscripts

Our edition is based on the textual evidence of three manuscripts. All three were produced in the Kathmandu Valley, Nepal and preserved in libraries there. Klebanov (2021a: §2.1) provided a comprehensive description of the individual manuscripts, quotes and translates their colophons and thoroughly examines various problems involved in their interpretation. That is why we will present only the key data essential for the study of our edition in the present book. In referring to the manuscripts, we use the sigla K, N and H, which correspond to the initial letters in the names of the libraries or owners, and have become canonical.

K MS Kathmandu KL 699 (fig. 4.1) is preserved at the Kaiser Shamsher (KL) library in Kathmandu. The was microfilmed and catalogued by the NGMPP/ NGMCP as C 80-7. The MS comprises 152 palm-leaf folios that originally belonged to several different codicological units written by different scribes. The folios are 53.5 × 4.4 cm in size and have two string holes. The text is written in the so-called transitional Gupta script, with six to eight lines per folio. The MS is incomplete and contains a large part of the *Suśrutasaṃhitā* as well as the *Sauśrutanighaṇṭu*. The date stated in the colophon at the end of the compendium is verified for Sunday, April 13, 878 ce. However, physical damage to the manuscript folio containing the colophon means that it is no longer possible to interpret it definitively. In particular, two persons

¹³⁶ See also Harimoto 2010; 2011; 2014.

¹³⁷ See also the description by Klebanov (2021a: §2.1).

¹³⁸ See the description in the online NGMCP catalogue, Harimoto 2013.

¹³⁹ Bhattarai (2020:46) and Klebanov (2021a:11) agree that four to five scribes were involved in the manuscript's production.

¹⁴⁰ Codicological features of the manuscript, including the layout, peculiarities of the script, and various ornamental and text-dividing symbols were studied by Bhattarai (2020).

¹⁴¹ Klebanov (2021a:11) provided a detailed description of the content.



Figure 4.1: Folios 17r and 17v of MS Kathmandu KL 699 (K).



Figure 4.2: Folios 3or and 3ov of MS Kathmandu NAK 1/1079 (N).

are mentioned in the concluding remarks, someone called Śrī Harṣacandra and Vaidya Vasuvarman, but their roles are not perfectly clear. Klebanov (2021*a*: 16) thinks that the former,

...either sponsored the copying enterprise or wrote the manuscript himself, [and that he subsequently] donated it to Vaidya Vasuvarman on the condition that he (Vasuvarman) would study the text and explain it to others. The second condition was that the manuscript should remain in the family and not be given away either for sale or as a pawn. If the manuscript sat unused, it should be returned to Śrī Harsacandra. 142

- N MS Kathmandu NAK 1-1079 (fig. 4.2) is kept at the National Archives Kathmandu (NAK), under accession number It was microfilmed twice by the NGMPP as 1/1079 **क**.¹⁴³ A 45-5(1) and A 1267-11(2),144. In 2023 the project was able to purchase higher-quality colour digital images of the manuscript from the NAK. The manuscript comprises 65 palm-leaf folios, 56×5 cm in size, with two string holes each, and it is bundled together in a composite manuscript with at least one other medical work. The text is written in a variety of Newari scripts, with seven lines per folio on average. Although the text contained in the manuscript does not cover the entire Suśrutasamhitā and breaks off abruptly in the second chapter of the śārīrasthāna, the actual MS, as a codicological unit, appears complete, that is, no leaf seems to be missing from the originally unitary artefact. Based on paleographic considerations, the manuscript can be dated tentatively to the twelfth or thirteenth century.
- H MS Kathmandu NAK 5-333 (fig. 4.3) formerly belonged to the historical collection of Hemarāja Śarman (fl. 1878–1953). It is now held by the National Archives Kathmandu and was microfilmed twice by the NGMPP as B 29-19 and B 30-15, but the latter microfilm is incomplete. The manuscript comprises 435 palm-leaf folios, 34×5 cm in size, with one string-hole

¹⁴² Klebanov (2021a: 13–17) provided a translation and study of the colophon, as well as an exposition of different positions related to its interpretation.

¹⁴³ See also the description by Klebanov (2021a: §2.2).

¹⁴⁴ See the description in the NGMCP database by Acharya (2012).

¹⁴⁵ See also the description by Klebanov (2021a: §2.3).

¹⁴⁶ See the NGMCP description by Klebanov (2012).

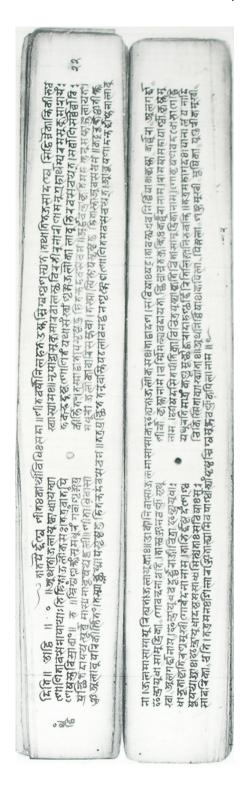


Figure 4.3: Folios 22v and 23r of MS Kathmandu NAK 5-333 (H).

left of centre. It is written in a type of Newari script that is more recent than that of N, with approximately six lines per folio. The manuscript is exceptionally well preserved. Of vital value for the present project, the manuscript supports the complete *Suśrutasaṃhitā* and the *Sauśrutanighaṇṭu*. The final colophon identifies the scribe of the manuscript as Vaidya Amarasiṃhaka, son of Kamaladatta, and states the date on which he concluded the copying of the text. Both reading the colophon, that is, deciphering the actual characters, and the interpretation of the concerned passage involve diverging opinions, all of which concur, however, in assigning the MS to the sixteenth century. Klebanov (2021a: 21–26) gave an analytical account of the views expressed in literature, considered further options, and proposed that the MS was completed on Sunday, July 29, 1543.

Editorial Principles

Method

The data for the critical edition comes from the witnesses of the Nepalese version, described above. Diplomatic transcriptions of SS 1.16 of these manuscripts have been created by researchers of the Suśruta Project according to a subset of TEI Guidelines that has been formulated by Charles Li and tailored for the Saktumiva platform. MS Kathmandu NAK 5-333 was transcribed first because its script is relatively easy to read, the scans are clear, it is the most complete of the manuscript witnesses, and its text is extremely close to that of MS Kathmandu KL 699. Following that, MS Kathmandu KL 699 and MS Kathmandu NAK 1-1079 were transcribed.

The diplomatic transcriptions were uploaded to Li's manuscript collation platform called Saktumiva, chapter by chapter as they were completed. An electronic edition of the vulgate of the *Suśrutasaṃ-hitā*, that was transcribed, without the commentaries, by Tsutomu Yamashita and Yasutaka Muroya on the basis of Ācārya's 1931 and 1938 Bombay editions has also been included on the Saktumiva platform and is available for collation. 149

¹⁴⁷ See Wujastyk 2021–, TEI Consortium 2010 and Li 2017–: "TEI Tagging".

¹⁴⁸ See the Saktumiva interface Li 2017-.

¹⁴⁹ This electronic edition is also available on the SARIT website (Wujastyk et al. 2008—: sub "Suśrutasaṃhitā"). The version at Saktumiva has received several

Saktumiva's collation function standardises punctuation and orthographic variants according to filters which can be turned off or on. These filters enable the editors to ignore daṇḍas, numbers and floral punctuation marks (puṣpikā) in the transcripts, as well as orthographic variants, such as च and च, certain germinated consonants, and visarga variants. On the basis of the automatic collation, Jason Birch created a provisional edition of SS.1.16, which the project's researchers read together at weekly seminars. Manuscript images were routinely checked to verify the transcripts, particularly when a reading was uncertain; the commentaries of Cakrapāṇidatta and Dalhaṇa were read, and variant readings reported by these commentators were included in notes to the edition. Also, various reference books were consulted, to elucidate the meaning of technical terms and identify relevant information in other medical works. 151

An initial draft of the translation and many annotations were written by Wujastyk during the seminars as the Project researchers discussed the text's meaning. The transcripts, provisional edition and translation were uploaded to the project's repository at Github on a weekly basis. Therefore, the project's work has been publicly available as it evolves. The software tools used in the project have been described on the project website. 153

Stemma

The data from transcripts collated by Saktumiva can be exported as a FASTA file and aligned according to characters, syllables or words by a program called Helayo. ¹⁵⁴ The resulting NEXUS file can be read by phylogenetic software to build a stemmatic tree. ¹⁵⁵ This procedure was done with transcripts of several chapters of the Nepalese witnesses, and the results confirmed the editors' preliminary stemmatic hypothesis that K and H are more closely related to one another

corrections and the intention is to merge these back into the SARIT edition eventually.

¹⁵⁰ On the rationale for implementing text-critical principles as algorithms, see Li 2017 and Li 2018: §4.4.

¹⁵¹ Particularly valuable reference resources included V. Jośī and N. H. Jośī (Ay-Mahā), Meulenbeld (HIML), and the literature on materia medica cited on pp. 85 ff. below.

¹⁵² Wujastyk 2021-.

¹⁵³ Wujastyk et al. 2021-: "The toolbox".

¹⁵⁴ Li 2022a.

¹⁵⁵ This process is discussed in greater detail by Li (2022b).

than K and N.¹⁵⁶ Given the early date of K and the small number of other surviving witnesses of the Nepalese version, the relationship between the manuscripts at our disposal is reasonably clear and, in the case of SS.1.16, the manuscript data was largely confined to N and H owing to a missing folio of K. Rather than having to assess numerous variant readings from a large number of witnesses, the challenge of editing has been to repair the text where it has become corrupt in the few witnesses available to us.

The Edition and Apparatus

The critical edition of SS.1.16 in this article retains many of the peculiarities of MS Kathmandu KL 699 because the editors have endeavoured to present to the reader a hyparchetype of the text that was transmitted by this ninth-century manuscript. Therefore, the Sanskrit has been standardised as little as possible and, although the text has been corrected and repaired wherever it was corrupt in the witnesses, it has not been normalized or conventionalized to the extent of many modern editions of Sanskrit works.

The editors have assumed that the authors of the Nepalese *Suśrutasaṃhitā* were familiar with Pāṇinian Sanskrit and, although there are some non-standard spellings and grammatical forms in the text, there are very few instances of hyper-Sanskritization, Buddhist-Hybrid Sanskrit or Epic forms that would suggest that this assumption is unreasonable. Therefore, the editors of SS.1.16 have opted to retain some perhaps unfamiliar features of the Sanskrit in MS Kathmandu KL 699 when they are grammatically correct. For example, in external *sandhi*, the class nasal is usually used at the end of a word instead of an *anusvāra* (e.g.,1.16.3, व्यापनन्धात्र्व), although the *anusvāra* is sometimes used (1.16.15, उदके धान्याह्र०). In

¹⁵⁶ See chapter 2 above for further discussion.

¹⁵⁷ On the contrary, the text of the <code>Suśrutasaṃhitā</code> sometimes retains legitimate Pāṇinian forms that are rare or unknown elsewhere in Sanskrit literature. For example, the term <code>kārmuka</code> "effective," formed by P.5.1.103, is virtually unknown in classical Sanskrit, and is said even by the authors of the <code>Kāśikāvṛtti</code> to occur uniquely as an adjective describing a bow. Yet it occurs in both the <code>Suśrutasaṃhitā</code> (1.41.5 (Su 1938: 182)) and the <code>Carakasaṃhitā</code> (1.26.13 (Ca. 1941: 138)), describing "effective" drug substances. Cf. the observation by M. Deshpande (1988: 118) that other rare Pāṇinian usages in the early Sanskrit medical texts provide evidence that, "... in all likelihood there was a dialect of Sanskrit closer to Pāṇini's time and region in which [such peculiar Pāṇinian usage existed]. This peculiarity did not exist in most other dialects of Sanskrit."

most cases, the consonant following a $\overline{\mathfrak{A}}$ is doubled, but this is not always the case. Since these inconsistencies seem inherent to the transmission of the text and may have even been authorial, the critical edition reflects them as they occur in K and, when the testimony of K is not available, the witness most similar to K, which is H.

The Nepalese manuscripts often have an <code>anusvāra</code> before a <code>daṇḍa</code> at the end of a sentence or verse. Whether these <code>anusvāras</code> should be changed to the consonant <code>¬</code> is a moot question because there is no formal Pāṇinian concept of 'end-of-sentence' and his rules on <code>sandhi</code> are contingent on the close contact of sounds (<code>saṇhitā</code>). However, it is reasonable to assume that at the end of a verse, paragraph or sentence the speakers would have paused for breath or thought, so <code>sandhi</code> should be applied, in which case a final <code>anusvāra</code> or class nasal of the following consonant is changed to <code>¬</code>. Nonetheless, this remains an assumption about how the text would be pronounced. Therefore, in a critical edition, inserting <code>daṇḍas</code> and changing <code>anusvāras</code> to <code>¬</code> before them are subjective decisions by the editors. The scribal use of <code>daṇḍas</code> and <code>anusvāras</code> in the Nepalese manuscripts can be seen in the digital edition if one switches off the filters for ignoring <code>daṇḍas</code> and final <code>anusvāra</code> variants.

Unconventional spellings and grammatical forms have been retained and noted in the annotations to the translation. However, the editors have corrected scribal errors and repaired corruptions in the transmitted text with conjectures wherever possible. Therefore, although the edition retains many of the peculiarities of the Nepalese manuscripts, it is not a diplomatic transcript or a hybrid of diplomatic and critical editing because the features of the transmitted text have been retained or changed deliberately, and the reasons for doing so are given in either the introduction or, in more specific cases, the annotations to the translation.

¹⁵⁸ Examples of the germination of consonants are कर्ण्ण (1.16.1 ff), मुहूर्त्त (1.16.2), पूर्व्व (1.16.2), गन्धर्व्व (1.16.5), ॰मूलेर् म्मधु॰ (1.16.5), वर्त्ति (1.16.6) and पुनर्व्विध्येत् (1.16.6). Examples where it does not occur in 1.16 are ॰आर्थम् (1.16.8,19), कुर्यात् (1.16.16, 32), ॰पालिर्वेछूर॰ (1.16.10); ॰पालिर्व्यायोजिमः (1.16.10) and दीर्घैंक॰ (1.16.10).

¹⁵⁹ Pāṇini 1.4.109 परः सन्निकर्षः संहिता, et passim.

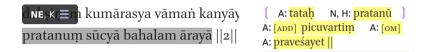


Figure 4.4: The digital edition of SS.1.16.3

Digital Edition

The editors are producing both printed and digital editions of the Nepalese *Suśrutasaṃhitā*. Since the print and digital environments differ markedly, each edition has its own format.

Instructions for reading the digital edition have been provided by Li at Saktumiva. In brief, you can generate the apparatus by choosing a base text and one or more of the other witnesses. You can also choose to hide or ignore in varying degrees TEI tags, punctuation and orthographical variants in the transcripts of the witnesses. On the right side of the text, the digital edition displays an apparatus that is negative in so far as the lemma and its witnesses are not included. This apparatus intelligently truncates variants where possible.

For example, as seen in Figure 4.4, the apparatus for the words pratanuṃ sūcyā bahalam ārayā is on the right side of the display. This entry means that the editors have chosen to read pratanuṃ, which the reader must infer is attested by K, whereas A has tataḥ and N and H pratanū. Witness A has added the word picuvartiṃ after tataḥ, omitted sūcyā bahalam, 160 and has praveśayet instead of ārayā, which is attested by all of the Nepalese witnesses.

A popup on a dark background, as shown in Figure 4.4, displays the manuscript sigla for the witnesses that support the selected reading, which is labelled "NE" ("New Edition"). As seen in Figure 4.5, the positive apparatus of *pratanuṃ sūcyā bahalam ārayā* appears in a pop-up window in which the lemma and variants are aligned according to letters, and the variations are highlighted in yellow. The positive apparatus can be expanded by highlighting one or more words, and even entire passages or verses, and clicking on the collapsed menu icon.

In both the negative and positive apparatuses of the digital edition, you must infer conjectures and corrections by the editors. Testimonia and notes are in the apparatus on the right side of the "provisional edition" text. They give an opportunity for the editors to

¹⁶⁰ The omitted words are displayed by hovering the cursor over [OM] adjacent to A in the apparatus.

5	SP: pratanum	sūcyā bahalam	ārayā
	A: tataḥ [ADD] picuvartiṃ	[ом]	praveśayet
	K: pratanum	sūcyā bahalam	ārayā
	N: pratanū	sūcyā bahalam	ārayā
	H: pratanū	sūcyā bahalam	ārayā

Figure 4.5: The witnesses to a selected passage of SS.1.16.3

provide scholarly commentary of various kinds, but the editors cannot write comments directly into the textual apparatus itself, since it is constructed live each time the text is displayed.

The digital form of the edition is "soft," in the sense that editorial work on the files that generate the critical text is potentially continuous, adding ever greater refinement and precision. And, especially, as more manuscript witnesses come to light and are transcribed, the edition is open to continuous enrichment.

Printed Edition

The printed edition of SS.1.16 has four layers of footnotes. The first layer reports the witnesses that have been collated. Line numbers and lemmata have been used to identify the witnesses that have been collated for a particular section of the text, as seen in the following example on p. 47:

The above entry means that a textual passage beginning with अथातः on line 1 and ending with विद्वलिङ्गम् on line 9 is attested by manuscripts K, H and N. This layer also indicates passages that are missing or omitted in a particular witness.

The second layer of footnotes reports the variant readings of the Nepalese witnesses. This apparatus is negative, that is to say, only the testimony of the variant readings have been reported, and not that of the lemma. The following entry is an example of the apparatus' syntax, on p. 47:

This entry means that on line six of the edition the editors have chosen to read সনন্, instead of সনন, which is attested by witnesses

N and H. The reader can infer that স্বান্ত is attested by K because the first layer of footnotes indicates that K has been collated here. In prose passages, the lemmata and variants consist of corresponding words and, in verses, corresponding syllables. Emendations by the editors are indicated by the abbreviation *em.*, and omissions and suppletions in the witnesses are indicated by *om.* and *add.*, respectively. A wavy line under a letter means that it is unclear to the editors. Text deleted by a scribe is shown underscored by double lines, and the scribe's substitution is appended in quotation marks.

There are minor notational variations between the online digital edition and the printed edition presented here. For example, a scribal "crow's foot" mark (কাক্पद), often indicating a marginal insertion, is displayed in the digital edition as,

N: aneX

and in print as

१ अनेन] अने X N.

The third layer of footnotes contains the variant readings of the vulgate, which have been presented in the same format as the second layer. If a reading of the vulgate has been accepted by the editors against different readings in the Nepalese witnesses, the siglum for the vulgate (i.e., A) has been placed next to lemma in the second layer of footnotes.

The fourth layer of footnotes includes various testimonia and notes. The testimonia mainly consists of the variant readings noted by the commentators Cakrapāṇidatta and Dalhaṇa. Those known to Gayadāsa may be added in future publications. The notes include brief comments on certain emendations and editorial decisions. More elaborate discussions on such issues have been included in the annotations to the translation.

In the printed edition below, the numbering of passages has been adjusted to follow the text of the Nepalese version of the work. The numbering of the corresponding passages in the vulgate is presented in small digits in the right margin.

5 Critical edition of Sūtrasthāna 16

अथातः कर्णाव्यधविधिं व्याख्यास्यामः॥१॥

1.16.1

रक्षाभूषणिनिमित्तम्बालस्य कण्णौ व्यधयेत्। तौ षष्ठे मासे सप्तमे वा शुक्ठपक्षे प्रशस्तेषु तिथिकरणमृहूर्त्तनक्षत्रेषु कृतम-ङ्गलस्विस्तिवाचनं धात्र्यङ्के कुमारमुपवेश्याभिसान्त्वयमानो भिषग्वामहस्तेनाकृष्य कर्ण्णन्दैवकृते छिद्रे दक्षिणहस्तेन ऋजु विध्येत्। पूर्वन्दक्षिणं कुमारस्य वामङ्कन्यायाः। प्रतनुं सूच्या बहलमारया ॥२॥

1.16.3

_____ Witnesses ______ १–९ अथातः–०विद्धलिङ्गम्] MSS K, H, and N

MS variants _

१ व्याख्यास्यामः] व्या K. ३ सप्तमे] om. N. ३–४ ०मङ्गलस्वस्तिवाचनं] A; ०मङ्गलं स्वस्तिवाचनं K, H, N. ४ धात्र्यङ्के] धात्र्यङ्को K. ४ कुमार] कुमारकम् N. ५ ऋजु] र्जुम् N H. ६ प्रतनुं] प्रतनू N H.

_____Variants from Su 1938 _

१ कर्णाव्यधविधिं] कर्णव्यधवन्धविधिमध्यायं A. १ व्याख्यास्यामः] add. यथोवाच भग-वान्धन्वन्तिरः॥ A. २ व्यध्येत्] विध्येते A. २ मासे] मासि A. १ धात्र्यङ्के] add. कुमारधराङ्के वा A. १ मुपवेश्यामिसान्त्वयमानों] उपवेश्य बालकीडनकैः प्रलोभ्याभिसान्त्वयम् A. ५ कर्णान्] कर्णं A. ५ छिद्रे] छिद्र A. ५ छिद्रे] add. आदित्यकरावभासिते शनैः शनैर् A. ५ ऋजु] र्जु A ६ विध्येत्] add. प्रतनुकं सूच्या बहलमारया A. ६ कन्यायाः] कुमार्याः A. ६ -७ प्रतनुं सूच्या बहलमारया] ततः पिचुवर्तिं प्रवेशयेत्॥ A.

Notes

[ै]The compound कृतमङ्गलस्वस्तिवाचनं is an emendation based on the similar text at 3.2.25 (Su 1938: 346).

The ātmanepada participle is a permitted form, although the vulgate has the parasmaipada. Dalhaṇa, on 1.16.3 (Su 1938:76), recorded the alternative reading भक्ष्यविशेषेवी before बालकीडनकैः प्रलोभ्य in the vulgate.

	शोणितबहुत्वेऽतिवेदनायां चान्यदेशविद्धमिति जानी-	
	यात्। निरुपद्रवता तद्देशविद्धलिङ्गम् ॥३॥	1.16.4
१०	तत्र यद्दच्छाविद्धायां सिरायामज्ञेन ज्वरदाहश्वयथुवे-	
	दनाग्रन्थिमन्यास्तम्भापतानकिशरोग्रहकर्ण्णशूलानि	
	भवन्ति॥४॥	1.16.5
	दोषसमुदयादप्रशस्तव्यधाद्वा तत्र वर्त्तिमपहृत्य यवमधुक-	
	मञ्जिष्ठागन्धर्व्वहस्तमूलैर्म्भधुघृतप्रगाढैरालेपयेत्। सुरूढञ्जैन-	
१५	म्पुनर्व्विध्येत्॥५॥३	1.16.6
	सम्यग्विद्धमामतैलपरिषेकेणोपचरेत् । त्र्यहात्त्र्यहाद्वर्त्ति	
	स्थूलतरीङ् ⁸ कुर्व्वीत परिषेकञ्च तमेव॥६॥	1.16.7
	अथ व्यपगतदोषोपद्रवे कर्ण्णेऽलंप्रवर्द्धनार्थं लघुप्रव-	
	र्द्धनकमामुञ्चेत् ॥७॥	1.16.8

__MS variants ____

१० ०श्वयथु०] em.; ०श्वयथुर् N; ०श्वयथुर् H. १३–१४ ०गन्धर्व्वहस्तमू $\ddot{\mathcal{O}}$ र्] ०गन्द्वंहस्तमू $\ddot{\mathcal{O}}$ N. १६ ०परिषेकेणोप०] ०परिषेकणोप० H. १७ ०तरीङ्] ०तरीं N १८–१९ लघुप्रवर्द्धनकम्] ल प्रवर्धनकाम्मे N; प्रवर्धनका<u>मा</u> "मै" H. १९ आमुश्चेत्] em.; मुश्चेत् N H.

_Variants from Su 1938 _

द बहुत्वे] बहुत्वेन A. ८ ऽतिवेदनायां] वेदनया A. ९ ०द्रवता] ०द्रवतया A. ९ ०विद्धिलङ्गम्] ०विद्धमिति A. १० तत्र यदच्छाविद्धायां सिरायामज्ञेन] तत्राज्ञेन यदच्छया विद्धासु
सिरासु कालिकाममिरिकालोहितिकासूपद्रवा भवन्ति। तत्र कालिकायां A. १० ज्वर०] ज्वरो
१० ०दाह०] दाहः १० ०श्वयथु०] श्वयथुर् A. १०-११ ०वेदना०] add. च भवित मर्मरिकायां वेदना ज्वरो A. ११ ०ग्रन्थि०] ग्रन्थयश् A. ११ ०ग्रन्थि०] add. च लोहितिकायां
A. १२ भवन्ति] add. तेषु यथास्वं प्रतिकुर्वीत॥ क्षिष्टजिक्षाप्रशस्तस्चीव्यधाद्गादतरवर्तित्वाद्
A. १३ वा] add. यत्र संरम्भो वेदना वा भवित A. १३ अपहृत्य] उपहृत्याशु A. १३-१४
यवमधुक०] मधुकैरण्डमूल० A. १३-१४ ०मिडाग्रान्धर्वहस्तमूलैर्] ०मिडाग्रयवितलकत्कैर् A. १४ आलेपयेत्] add. तावद्यावत्सुरूढ इति॥ A. १५ विध्येत्] add. विधानं तु
पूर्वोक्तमेव॥ A. १६ सम्यग्०] तत्र सम्यग्० A. १६ आमतेलपरिषेकेणोपचरेत्] आमतेलेन परिषेचयेत् A १६ त्र्यहाद्] add. च A. १७ ०तरीङ्] ०तरां A १७ कुर्व्वीत] द्यात्
A. १८ ऽत्लंप्रवर्द्धनार्थं] om. A. १८-१९ लघुप्रवर्द्धनकम्] लघुव० A १९ आमुन्नेत्]
कुर्यात्॥ A

_Notes ___

[ै]Dalhaṇa, on 1.16.6 (Su 1938: 77), stated that some do not read सुरूढ-श्रेनम्पुनर्विध्येत्

The unusual form स्थूलतरी is supported by both manuscripts and we have retained it in spite of only meagre evidence for the form in epic Sanskrit.

२०

1.16.9

एवं सम्बर्धितः कर्णाश्चियते तु द्विधा नृणाम्। दोषतो वाभिघाताद्वा सन्धानान्तस्य मे ११णु॥८॥ तत्र समासेन पञ्चद्शसन्धानाकृतयो भवन्ति। तद्यथा। नेमीसन्धानकः। उत्पलभेद्यकः। वल्लूरकः। आसिङ्गमः। गण्डकर्णणः। आहार्यः। निर्व्वेधिमः। व्यायोजिमः। कपाटसन्धिकः। अर्धकपाटसन्धिकः। सिङ्गप्तः। हीनकर्णणः। वल्ली-कर्णाः। यष्टीकर्णणः। काकौष्टः। इति। तेषु तत्र पृथुलायतसमोभयपालिर्नेमीसन्धानकः। वृत्तायतसमोभयपालिरुत्पलभेद्यकः। हस्ववृत्तसमोभयपालिर्वल्लूरकर्णकः। अभ्यन्तरदीघैंकपालिरासिङ्गमः। बाह्यदीर्धैकपालिर्गण्डकर्णकः। अपालिरुभयतोऽप्याहार्यः। पीठोपमपालिर्निर्व्वेधिमः। अणुस्थूल-समविषमपालिर्व्यायोजिमः। अभ्यन्तरदीर्धैकपालिरितराल्पपालिः कपाटसिन्धिकः। बाह्यदीर्धैकपालिरितराल्पपालिः कपाटसिन्धिकः। वाह्यदीर्धैकपालिरितराल्पपालिश्चार्द्ध-कपाटसिन्धकः। तत्रैते दशकर्णसिन्धिविकल्पा बन्ध्या भवन्ति। तेषान्नामिरेवाकृतयः प्रायेण व्याख्याताः।

२० नृणाम्] नृणा N. २१ दोषतो] A; दोषटो N H. २२ ०सन्धाना०] ०सन्धा० N. २५ अर्द्धकपाटसन्धिकः] om. N. २६ काकौष्ठः] काकौष्ठभः H. २६ इति] ति H. २६–२७ ०यतसमो०] A; ०यसमो० H; ०तसमो N. २८ ०भेद्यकः] ०भेद्यः N; ०भेद्रकः H. २८ वस्त्रूर०] वर्द्धर० N. २९ वाह्य] A; वाह्यक N H. ३०–३१ अणुस्थूल०] अशुस्थूल० H ३२ कपाट०] कवाटा० H. ३२–३३ चार्द्धकपाट०] em.; वार्द्धकवाट० H; चार्द्धकवाप० N.

_MS variants

_Notes _

^{&#}x27;Cakrapāṇidatta, on 1.16.9–13 (Su 1939: 128), and Dalhaṇa, on 1.16.10 (Su 1938: 78), pointed out that others read पञ्चद्शकर्णकृतयः (instead of पञ्चद्शसन्धानाकृतयः). At the same place, Dalhaṇa also mentioned that some read समुन्नतसमोभयपालिः (instead of वृत्तायतसमोभयपालिर्) and others do not read संक्षिप्तादयः पञ्चासाध्याः.

संक्षिप्तादयः पञ्चासाध्याः। तत्र शुष्कश-ष्कुलिरितराल्पपालिः संक्षिप्तः। अनिधष्ठानपालिः पर्य-न्तयोश्च क्षीणमांसो हीनकर्णाः। तनुविषमपालिर्वल्लीकर्णाः। ग्रन्थितमांसः स्तब्धिसराततसूक्ष्मपालिर्यष्टीकर्णाः। नि-म्मांससंक्षिप्ताग्राल्पशोणितपालिः काकौष्ठ इति। बद्धेष्विप इन् दाहपाकस्रावशोफयुक्ता न सिद्धिमुपयान्ति॥९॥

1.16.10

अतोऽन्यतमस्य बन्धञ्चिकीर्षुः अग्रोपहरणीयोक्तोपस-म्भृतसम्भारः विशेषतश्चात्रोपहरेत् सुरामण्डक्षीरमुद्कं धा-न्यास्रकपालचूर्ण्णञ्चेति।

_Variants from Su 1938 _

Notes

[§]The vulgate passage inserted between 9 and 10 (from भवन्ति चात्र to शास्त्रवित) was probably also absent in the version of the *Suśrutasaṃhitā* commented on by Cakrapāṇi, who cited it in his commentary as being "read by some" in regard to the joins (सन्यान) that they describe (1.16.9–13 (Su 1939: 128)).

[&]quot;विशेषतश्चाग्रोपहरणीयात् of the MSS has been emended to विशेषतश्चात्रोपहरेत् to make sense of the list of ingredients, which is in the accusative case. This अग्रोपहरणीयात् in the MSS may be a dittographic error.

ततोऽङ्गनां पुरुषम्वा ग्रथितकेशान्तं लघुभुक्तवन्तमाप्तैः सु-परिगृहीतं च कृत्वा बन्धानुपधार्य छेद्यभेद्यलेख्यव्यधनैरुपपाद्य कर्णाशोणितमवेक्ष्यैतदृष्टमदुष्टम्वेति ततो वातदुष्टे धान्यास्रोद-काभ्यां पित्तदृष्टे शीतोदकपयोभ्यां श्लेष्मदृष्टे सुरामण्डोदका-भ्यां प्रक्षाल्य कर्ण्णम्पुनरवलिखेत्। अनुन्नतमहीनमविषमञ्ज कर्ण्णसिन्धन्निवेश्य स्थितरक्तं सन्दर्श्य मधुघतेनाभ्यज्य पि-चुस्रोतयोरन्यतरेणावगुण्ठ्य नातिगाढन्नातिशिथेलं सूत्रेणाव-बध्य कपालचुण्णेनावकीर्याचारिकमपदिशेत। द्विवणीयोक्तेन चान्नेनोपचरेत ॥१०॥

1.16.15

विघटनन्दिवास्वप्तं व्यायाममतिभोजनम् । व्यवायमग्निसन्तापम्वाक्श्रमञ्ज विवर्ज्जयेत्॥११॥

1.16.16

MS variants _

_Variants from Su 1938 _

४४ पुरुषम्] पुरुषञ् N. ४५ च कृत्वा] A; om. N H. ४५ उपधार्य] उपपाद्य H. ४६ ॰शोणितमवेक्ष्यैतद] ॰शोणितत अवेक्ष्येतद N. ४६ अदुष्टम्] अदुष्टश् N. ४६ वेति] A; चेति N H. ४६-४७ धान्याम्लो० | धान्याल्लो० N ४७ शीतोदक० | शीतोदको० N. ४८ अवलिखेत्] अवलिखेत N. ४९ ०सन्धिन्] ०सन्धिं N ५० ०गुण्ट्य] ०गुण्ट्यो H. ५० ०गाढन्] ०गाढं N. ५०-५१ ०बध्य] ०बद्ध N. ५१-५२ चान्नेनोपचरेत्] उपपोचरेत् N. ५२ ॥१०॥] add. भ N. ५३ विघट्टनन्] विघट्टनं N. ५४ अग्निसन्तापम्] आग्निसन्ताप N. **48** विवर्ज्जयेत् । वर्जयेत् N.

४५ बन्धान्] बन्धम् A. ४५ ०व्यधनैर्] add. उपपन्नैर् A. ४६ अवेक्ष्यैतद्] अवेक्ष्य A.

४६ ततो | तत्र A. ४६-४७ धान्याम्रोदका० | धान्याम्रोष्णोदका० A. ४७-४८ ०मण्डो-दका०] ॰मण्डोष्णोदका॰ A. ४८ कर्ण्णम्] कर्णौ A. ४८ अवलिखेत्। अनुन्नतम्] अव-लिख्यानुन्नतम् A. ४९ ०सन्धिन्] ०सन्धिं A ४९ निवेश्य] सन्निवेश्य A. ४९ सन्दर्श]सन्दध्यात् A. ४९ सन्दर्श्] add. ततो A. ५० नातिगाढन्] सूत्रेणानवगाढमन् A. ५० नाति०] अति० A. ५०-५१ सूत्रेणावबध्य] च बद्धा A. ५२ चान्नेनोपचरेत्] च विधाने-नोपचरेत् A. ५२ ॥१०॥] add. भवति चात्र। A. ५३ विघट्टनन्] विघट्टनं A.

५५

नातिशुद्धरक्तमितप्रवृत्तरक्तं क्षीणरक्तं वा सन्दध्यात्। स हि वातदुष्टे रक्तबद्धोऽरूढो परिपुटनवान्भवति। पित्तदुष्टे गाढ-पाकरागवान्। श्लेष्मदुष्टे स्तब्धकण्णः कण्डूमानतिप्रवृत्तस्रावः शोफवान्क्षीणाल्पमांसो न वृद्धिमुपैति॥१२॥

1.16.17

स यदा रूढो निरुपद्रवः कर्ण्णो भवति तदैनं शनैः शनैर-भिवर्द्धयेत्। अन्यथा संरम्भदाहपाकवेदनावान्भवति। पुनरपि छिद्येत ॥ १३ ॥

1.16.18

अथाप्रदुष्टस्याभिवर्द्धनार्थमभ्यङ्गः। गोधाप्रतुद्विष्किरान्-पौदकवसामज्जापयस्तैलं गौरसर्षपजञ्च यथालाभं

_ MS variants ____

५५ ०शुद्ध०] ०सुद्ध० N. ५५ ०वृत्तरक्तं] ०वृत्तं रक्तं N. ५६ रक्तवद्घोऽरूढो] em.; रक्तवद्घो रुढो N; रक्तवद्घो रूढो H. ५६ ०पुटनवान्] ०पुटवाम् N; ०पुटनवाम् H. ५६ ०दुष्टे] ०दुष्टे N. ५७ श्रेषम०] श्रेष० N. ५७ ०कण्णः] ०वण्णंः N. ५७ ०स्रावः] ०श्रावः H. ५८ श्लीणाल्प०] श्लीणो ल्प० N. ५९ रूढो] रुढो N. ६० ०पाकवेदनावान्] ०पाकरागवेदनावान् N; ०पाकवेदनावाम् H. ६२ अथाप्र०] अथास्याः प्र० H. ६२ ०दुष्टस्याभिवर्द्धनार्थम्] ०दुष्टस्याविवर्धनार्थम् N.

_Variants from Su 1938 _

५५ नाति॰] न चाशु॰ A. ५६ रक्तबद्धोऽरूढो] रक्ते रूढोऽपि A. ५६ भवित] om. A. ५७ गाढपाकरागवान्] दाहपाकरागवेदनावान् A. ५७ स्तब्ध॰] स्तब्धः A. ५७–५८ ॰ वृत्तस्रावः शोफवान्] ॰ वृत्तरक्ते श्यावशोफवान् A. ५८ क्षीणात्प॰] क्षीणोऽत्प॰ A. ५९ $inserted\ passage$] आमतैलेन त्रिरात्रं पिषेचयेत्त्रिरात्राच पिचुं पिरवर्तयेत्। A. ५९ रूढो] सुरूढो A. ५९ कर्णों] सवर्णों A. ६० अन्यथा] अतोऽन्यथा A. ६० ॰ पाकवेदनावान् A. ६० भवित] om. A. ६० अपि] om. A. ६१ छिद्येत] छिद्यते वा A. ६२ अथाप्र॰] अथास्याप्र॰ A. ६२ अभ्यङ्गः] add. तद्यथा A. ६२–६३ ॰ मजापयस्तैलं] ॰ मजानौ पयः सर्पिस्तैलं A.

संभृत्यार्कालकेबलातिबलानन्ताविदारीमधुकजलशूकप्रति-वापन्तैलम्पाचियत्वा स्वनुगुप्तन्निद्ध्यात् ॥१४॥४

1.16.19

स्वेदितो मर्दितङ्कर्णमनेन म्रक्षयेद्धुधः। ततोऽनुपद्रवः सम्यग्बलवांश्च विवर्द्धते॥१५॥९

1.16.20

ये तु कर्णा न वर्द्धन्ते स्नेहस्वेदोपपादिताः। तेषामपाङ्गे त्वबहिः कुर्यात्प्रछानमेव च ॥१६॥^{१०}

1.16.22cd -23ab

_ MS variants _

६४ ०आर्कालकंबलाति०] ०आर्कालकवलाति० N. ६४–६५ प्रतिवापन्तै] ०प्रतिवापं N. ६५ ०गुप्तन्] ०गुप्तं N. ६५ निद्ध्यात्] निद्धात् N. ६६ स्वेदितो] स्विदतो N. ६६ अनेन] अने \mathcal{X} N. ६७ ततोऽनुपद्रवः] ततो नुपद्रवः H; ततो नुपद्रवम् N. ६९ अबिहः] अविर्हि N. ६९ कुर्यात्] कुर्यात् N. ६९ प्रछानम्] प्रछन्नम् H.

_Variants from Su 1938 .

६४ ०वठानन्ता०] ०वठानन्तापामार्गाश्वगन्या A. ६४ ०विदारीमधुकजठशूक०] ०विदारिगन्याक्षीरशुक्काजठशूकमधुरवर्गपयस्या० ६४–६५ प्रतिवापन्तै] ०प्रतिवापं A. ६५ तैलम्] add. वा A. ६५ ०गुप्तन्। ०गुप्तं A. ६६ स्वेदितो मर्दितङ्] स्वेदितोन्मर्दितं A. ६६ अनेन प्रक्षयद्भुधः] स्नेहेनैतेन योजयेत् A. ६८ inserted passage] यवाश्वगन्धायधाह्नैस्तिलैश्वोद्धतं हितम्। शतावर्यश्वगन्धाभ्यां पयस्यैरण्डजीवनैः॥ तैलं विपक्षं सक्षीरमभ्यङ्गात्पालिवर्धनम्। A. ६८ स्नेहस्वेदोप०] स्वेदस्नेहोप० A. ६९ अपाङ्गे त्वबहिः] अपाङ्गदेशे तु A. ६९ च] त् A.

_Notes _

[°]Dalhaṇa, on 1.16.19 (Su 1938:79), noted that some read राजसर्वपजं in the place of गौरसर्वपजं. This reading appears to have been accepted by Cakrapāṇi, who glossed राजसर्वपज as श्वेतसर्वप (1.16.18–20 (Su 1939:130)). Cakrapāṇi also said that some read sarpis in the place of पयस. In the compound beginning with अर्क, Dalhaṇa noted that some read अर्कपुष्मी.

^९N has a काकपाद after अने, but the missing letter (one would expect `न') has not been supplied in a margin or elsewhere.

^{ै°} Dalhaṇa, on 1.16.23 (Su 1938: 80), noted that some read तेषामपाङ्गच्छेद्यं हि कार्यमाभ्यन्तरं भवेत.

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अमिताः कर्ण्णबन्धास्तु विज्ञेयाः कुशलैरिह । यो यथा सुनिविष्टः स्यात्तत्तथा योजयेद्भिषक्॥१७॥^{११} 1.16.26.1

जातरोमा सुवर्त्मा च श्लिष्टसिन्धः समः स्थिरः । सुरूढोऽवेदनो यस्तु तं कर्णां वर्द्धयेच्छनैः॥१८॥

1.16.25

______ MS variants ______ ७० ०वन्धास्] ०वन्धो H. ७० तु] स्तु H. ७१ योजयेदु] योजये N. ७३ सुवर्त्मा] सुपर्मा N ; सुवर्म्मा H. ७३ ०सन्धिः] ०सन्धिम् N. ७४ तु] em.; तत् N H.

Variants from Su 1938. 👐 inserted passage] बाह्यच्छेदं न कुर्वीत व्यापदः स्युस्ततो ध्रुवाः ॥ बद्धमात्रं तु यः कर्णं स-हसैवाभिवर्धयेत्। आमकोशी समाध्मातः क्षिप्रमेव विमुच्यते॥ A. 🤒 सनिविष्टः 🛚 सविशिष्टः A. ७१ स्यात्] तं A. ७१ योजयेद्भिषक्] विनियोजयेत् A. ७१ inserted passage] (कर्णपाल्यामयाञ्चणां पुनर्वक्ष्यामि सुश्रुत !॥ कर्णपाल्यां प्रकुपिता वातपित्तकफास्त्रयः॥ १॥ द्विधा वाऽप्यथ संसुष्टाः कुर्वन्ति विविधा रुजः। विस्फोटः स्तब्धता शोफः पाल्यां दोषे त वातिके दाहवि-स्फोटजननं शोफः पाकश्च पैत्तिके। कण्डः सश्वयथुः स्तम्भो गुरुत्वं च कफात्मके॥ ३॥ यथादोषं च संशोध्य कर्यात्तेषां चिकित्सितम्। स्वेदाभ्यङ्गपरीषेकैः प्रलेपासुग्विमोक्षणैः॥ ४॥ मृद्धीं क्रियां बुं-हणीयैर्यथास्वं भोजनैस्तथा। य एवं वेत्ति दोषाणां चिकित्सां कर्तुमर्हति॥ ५॥ अत ऊर्ध्वं नामिलङ्गे-र्वक्ष्ये पाल्यामुपद्रवान्॥ अत्पाटकश्चोत्पुटकः रूयावः कण्डुयुतो भृराम्॥ ६॥ अवमन्थः सकण्डुको ग्रन्थिको जम्बुलस्तथा॥ स्नावी च दाह्वांश्चैव शृण्वेषां क्रमशः क्रियाम्॥ ७॥ अपामार्गः सर्जरसः पाटलालकुचत्वचौ॥ उत्पाटके प्रलेपः स्यात्तैलमेभिश्च पाचयेत्॥ ८॥ शम्पाकशिग्रपुतीकान्गो-दामेदोऽथ तद्वसाम्॥ वाराहं गव्यमैणेयं पित्तं सर्पिश्च संस्रजेत्॥ ९॥ लेपमृत्युटके दद्यात्तैलमेभिश्च साधितम्॥ गौरीं सुगन्धां सरयामामनन्तां तण्डुलीयकम्॥ १०॥ रयावे प्रलेपनं दद्यात्तैलम् एभि-श्च साधितम्॥ पाठां रसाञ्चनं क्षौद्रं तथा स्यादुष्णकाञ्चिकम्॥ ११॥ दद्याल्लेपं सकण्डुके तैलमेभिश्च साधितम्॥ व्रणीभृतस्य देयं स्यादिदं तैलं विजानता॥ १२॥ मधुकक्षीरकाकोलीजीवकाद्यैर्विपा-चितम्॥ गोधावराहसर्पाणां वसाः स्युः कृतबृंहणे॥ १३॥ प्रलेपनिमदं दद्यादवसिच्यावमन्थके॥ प्रपौण्डरीकं मधुकं समङ्गां धवमेव च॥ १४॥ तैलमेभिश्च संपक्तं श्रणु कण्डमतः क्रियाम्॥ सह-देवा विश्वदेवा अजाक्षीरं ससैन्धवमेतैरालेपनं दद्यात्तैलम् एभिश्च साधितम्॥ १५॥ ग्रन्थिकं गुटिकां पूर्वं स्नावयेदवपाट्य तु॥ ततः सैन्धवचूर्णं तु घृष्ट्वा लेपं प्रदापयेतु॥ १६॥ लिखित्वा तत्स्नुतं घृष्ट्वा चुर्णैर्लोधस्य जम्बुले॥ क्षीरेण प्रतिसार्थैनं शुद्धं संरोपयेत्ततः॥ १७॥ मधुपर्णी मधूकं च म मधुकं मधुना सह ॥ लेपः स्नाविणि दातव्यस्तैलमेभिश्च साधितम् ॥१८॥ पञ्चवल्कैः समधुकैः पिष्टैस्तैश्च घतान्वितैः॥ जीवकाद्यैः ससर्पिष्कैर्दह्यमानं प्रलेपयेत्॥१९॥) A. ७४ यस्त् 🛭 च A.

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^{११} Dalhaṇa, on 1.16.26 (Su 1938: 80), stated that some read सुनिविष्टः (i.e., the reading of the Nepalese version) instead of सुविशिष्टः.

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विश्लेषितायामथ नासिकायां ૭૫ वक्ष्यामि सन्धानविधिं यथावत । नासाप्रमाणं पृथिवीरुहाणां पत्रं गृहीत्वा त्ववलम्बि तस्य ॥१९॥ १२ 1.16.27 तेन प्रमाणेन हि गण्डपार्श्वाद उत्कत्य वध्रं त्वथ नासिकाग्रम । ८० विलिख्य चाश प्रतिसन्दधीत तं साध्वद्धिम्भिषगप्रमत्तः॥२०॥ 1.16.28 ससीवितं सम्यगतो यथावन नाडीद्वयेनाभिसमीक्ष्य नह्येत् । उन्नामियत्वा त्ववचूण्णयीत पत्ताङ्गयष्टीमधुकाञ्जनेश्च॥२१॥ 1.16.29 संछाद्य सम्यक्पिचुना व्रणन्तु तैलेन सिञ्चेदसकत्तिलानाम् । घृतञ्च पाय्यः स नरः सुजीण्णें स्निग्धो विरेच्यः स्वयथोपदेशम्॥ २२॥ ९० 1.16.30

_ MS variants _

७५ नासिकायां] नासिकाया N. ७७ ०प्रमाणं] ०प्रमाणं N. ७७ ०वीरुहाणां] ०वीरु-हाणम् N. ७८ पत्रं] पत्र N. ८० वधं] वन्ध्र H. ८२ ०बद्धम्] ०वद्ध० N. ८३ सुसीवितं] *em.*; सुसीवित N; सुशीवितं H. ८६ पत्ताङ्ग०] *em.*; पत्ताङ्ग० H; पत्तङ्ग० N. ८७ व्रणन्तु] व्रण तुन् N. ९० विरेच्यः] A; विरेच्य N H. ९० ०देशम्] ०देशः N.

______Variants from Su 1938 _______ ७५ विश्लेषितायाम्] विश्लेषितायास्त्व A. ७५ नासिकायां] नासिकायां A. ८० वध्रं] बद्धं A. ८२ तं] तत् A. ८२ ०बद्धम्] ०बन्धेर् A. ८३ सुसीवितं] सुसंहितं A. ८४ नह्यते] बद्धा A. ८५ उन्नामित्वा] प्रोन्नम्य चैनाम् A. ८५ अवचूर्णपीत] अवचूर्णयेतु ८६ पत्ताङ्ग०] पतङ्ग० A. ८७ व्रणन्त] सितेन A. ९० स्वयथो०] स यथो० A.

_Notes _

^{१२}Cakrapāṇidatta, on 1.16.26 (Su 1939: 133), said that others read ना-सासन्धानविधिम् here. Þalhaṇa, on 1.16.27–31 (Su 1938: 81), stated that some read, छिन्नां तु नासिकां दृष्ट्वा वयःस्थस्य शरीरिणः। नासानुरूपं संच्छिद्य पत्रं गण्डे निवेशयेत॥

९५

रूढञ्च सन्धानमुपागतं वै तद्वध्रशेषं तु पुनर्निकृन्तेत्। हीनम्पुनर्वर्द्वयितुं यतेत समञ्च कुर्यादतिवृद्धमांसम् ॥२३॥ इति ओम्॥

1.16.31

_____ MS variants ____

९१ सन्धानम्] सन्धाम् N. ९१ उपागतं] उपागतश् H. ९१ वै] चै H. ९२ ०शेषं] ०सेषन् N. ९३ यतेत] यतेतः N. ९४ ०मांसम्] ०मान्सम् N. ९५ ओम्] om. N.

_Variants from Su 1938 _

९१ वै] स्यात् A. ९२ तद्वध्र•] तद्र्धं• A ९३ हीनम्] हीनां A. ९४ समञ्] समां A. ९४ ०मांसम्] •मांसाम् A. ९५ ओम्] om. A. ९६ inserted passage] नाडीयोगं विनौष्टस्य नासासन्धानवद्विधिम्। य एवमेव जानीयात्स राज्ञः कर्तुमर्हति॥ A.

6 Translation of Sūtrasthāna 16

Introduction

Notable earlier translations of the vulgate text of this chapter include those of Hessler (Latin, 1844–55), Hoernle (1897) Bhishagratna (1907–16), Singhal et al. (1972–82), Ōjihara (Japanese, 1974) and P. V. Sharma (1999–2001). 161

The topic of piercing the ear (कर्णव्यघ) is not discussed in the Carakasaṃhitā, 162 but it is mentioned in some texts that followed the Suśrutasaṃhitā, such as the Kāśyapasaṃhitā. 163 Also, the instrument for piercing the ear is described in the Aṣṭāṅgahṛdayasaṃhitā. 164 In the versions of the text known to Dalhaṇa and Cakrapāṇidatta, 165 the heading of this chapter is "the method of piercing and joining the ear" (कर्णव्यधवन्धविधि), instead of the Nepalese version's "the method of piercing the ear" (कर्णव्यधविधि). The topic of joining the ear (कर्णवन्ध) is discussed in passages 17–20 of the Nepalese version. However, it appears that only subsequent redactors reflected its importance by including it in chapter headings.

The Nepalese version also omits the opening remark on Dhanvantari that appears in subsequent versions of the text. For a discussion of the frame story in the Nepalese version, see the study by Birch, Wujastyk, Klebanov, Parameswaran, et al. (2021).

In the following translation, most Sanskrit passages are in prose. Those in verse are indented in the translation.

¹⁶¹ See also Zysk 1984: 288-291.

¹⁶² HIML: IB, 326, n. 175.

¹⁶³ HIML: IIA, 30.

^{164 1.26.26 (}Ah 1939: 321).

¹⁶⁵ Su 1938: 76 and Su 1939: 125, respectively.

Translation

- 1 Now we shall expound the method for piercing the ear. 166
- 2 One may pierce a child's ears for the purposes of protection and decoration. During a bright fortnight, in the sixth or seventh month, on one of the notable days, half days, hours and constellations, the physician, with a calming presence, sits the boy, who has received a benediction and the recitation of a blessing, ¹⁶⁷ on the lap of a wet-nurse. ¹⁶⁸ Then, he should pull the ear with his left hand and pierce straight through with his right hand at a naturally-occurring cleft. ¹⁶⁹ For a boy, do the right ear first; for a girl, do the left one. Use a needle on a thin ear; an awl on a thick one. ¹⁷⁰
- 166 When commenting on this statement, Dalhaṇa (Su 1938: 76) and Cakrapāṇidatta (Su 1939: 125) observed that only the ears of healthy people should be pierced, and they quoted the lost authority 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" (1.16.1 (Su 1938: 76)). Some texts use the adjective कर्ण-वेधनी rather than ॰व्यधनी.
- 167 The causative form व्यथ्येत is known in Classical Sanskrit (Whitney 1885: 166). The compound कृतमङ्गलस्वस्तिवाचनं "who has received a benediction and the recitation of a blessing" is an emendation based on the similar text at 3.2.25 (Su 1938: 346). Cf. also 3.10.8, 24 (Su 1938: 388, 390) that have slightly different formulations.
- 168 The versions of 1.16.3 known to Cakrapāṇidatta (Su 1939:126) and Dalhaṇa (Su 1938:76) have the additional compound কুमাংঘ্ৰং ("on the lap of one who holds the child") after খাল্মক্ব. The gender of কুमাংঘ্ৰং is made clear by Dalhaṇa's gloss "a man who holds the child." Also, both versions add बालकीडनकै: সलोभ्य ("having enticed with children's toys") to indicate that the child should be tempted with toys to stay on the assistant's lap. According to Dalhaṇa on 1.16.3 (Su 1938:76), the toys include replica elephants, horses, bulls and parrots. Dalhaṇa further mentions that others read भक्ष्यविशेषेची ("or by special treats") before बालकीडनके:, but we see no trace of these small kindnesses in our witnesses.
- 169 The versions of 1.16.3 of Cakrapāṇidatta (Su 1939:126) and Dalhaṇa (Su 1938:76) add that this naturally-occurring cleft is illuminated by a ray of sunshine (आदित्यकरावभासिते).
 - The syntax of this slightly long sentence is unusual because of the dual object নী "the two (ears)" at the start of the sentence, which is remote from the main verb. The other singular accusatives referring to the ear being pierced are governed by absolutives.
- 170 Dalhaṇa on 1.16.3 (Su 1938: 76) clarifies that the awl is a shoe-maker's knife for piercing leather. He also cites the authority of "the notes of Lakṣmaṇa" (Lakṣmaṇaṭippaṇaka) on the issue of the thickness of the needle. The Notes of Lakṣmaṇa is not known from any earlier or contemporary sources and was presumably a collection of glosses on the Suśrutasaṃhitā that was available to Dalhaṇa in twelfth-century Bengal. See Meulenbeld (HIML: IA, 386).

Translation 59

One may know that it was pierced in the wrong place if there is excess blood or too much pain. The absence of side-effects is a sign that it has been pierced in the right place.¹⁷¹

- 4 In this context, if an ignorant person randomly pierces a duct there will be fever, burning, swelling, pain, lumps, paralysis of the nape of the neck, convulsions, headache or sharp pain in the ear.¹⁷²
- 5 Having removed the wick (वर्ति) because of the accumulation of humours or an unsatisfactory piercing at that location,¹⁷³ he should smear it with barley, liquorice, Indian madder, and the root of the castor oil tree, thickened with honey and ghee. And when it has healed well, he should pierce it again.¹⁷⁴
- 6 He should treat the properly-pierced ear by sprinkling it with raw sesame oil. After every three days one should make a thicker

¹⁷¹ At this point, MS Kathmandu KL 699 is missing a folio, so the rest of this chapter is constructed on the basis of witnesses MS Kathmandu NAK 5-333 and MS Kathmandu NAK 1-1079.

¹⁷² This passage was significantly augmented in Cakrapāṇidatta's and Dalhaṇa's versions. They outlined the specific problems caused by piercing three ducts called कालिका, मर्मिका and लोहितिका, "blacky," "little killer," "little red" (1.16.4 (Su 1939: 126) and 1.16.5 (Su 1938: 77) respectively). The sequential order of these problems as mentioned in the Nepalese version was retained in the other versions and divided between each duct. Cakrapāṇidatta cited several verses attributed to Bhoja on the problems caused by piercing these three ducts in the ear flap: "लोहिता, मर्मरी and कृष्णा are the ducts situated in the ear-lobes. 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 लोहिता. Pain and lumps are thought to arise from piercing मर्मरी. Piercing कालिका gives rise to swelling, fever and burning." (Su 1939: 126). The slight instability of vocabulary in this passage is interesting, and the term मर्मरी in particular suggests a possible connection to the theory of मर्मेन् (on which, see Sieler 2015: 30-39), or to the Suśrutasamhitā's idea that vessels in the body are distinguished by colour (e.g., SS 3.7.18 (Su 1938: 377), see Wujastyk 2022: 405).

¹⁷³ In addition to these reasons, Dalhaṇa on 1.16.6 (Su 1938: 77) added "because of piercing with a painful, crooked and unsatisfactory needle" (क्रिप्टाजिह्माप्रशस्तस्ची-व्यधात्) and "because of a wick that is too thick" (गाढतस्वित्वात्). Dalhaṇa was aware of the reading in the Nepalese version because in his commentary on 1.16.6 (Su 1938: 77) he noted that some read "because of the accummulation of humours" rather than "because of piercing with a painful, crooked and unsatisfactory needle or because of a wick that is too thick." On the concept of humoral accumulation (समुदाय), see the important analysis by Meulenbeld (1992).

¹⁷⁴ The description of the drug is ambigious: the word "root" could be taken with each plant, or just with the last. The vulgate reads just "castor oil root" so we assume that is the traditional interpretation.

wick and do the very same sprinkling. 175

7 Once the ear is free from humours or side-effects, one should put in a light dilator (प्रवर्धनक) in order to enlarge it enough. 176

A person's ear enlarged in this way can split in two, either as a result of the humours¹⁷⁷ or a blow.¹⁷⁸
Listen to me about the ways of joining it can have.

9 Here, there are, in brief, fifteen ways of mending the ear flap. 179
They are as follows: Rim-join (नेमीसन्धानक), Lotus-splittable (उत्पलभेद्यक), Dried Flesh (वस्नूरक), Fastening (आसिक्षम), Cheek-ear (गण्डकर्ण), Take away (आहार्य), Ready-Split (निर्वेधिम), Multi-joins (व्यायोजिम), Door-hinge (कपाटसन्धिक), Half door-hinge (अर्धकपाट-सन्धिक), Compressed (संक्षिप्त), Reduced-ear (हीनकर्ण), Creeper-ear (वस्त्रीकर्ण), Stick-ear (यष्टीकर्ण), and Crow's lip (काकौष्ठ). 180
In this context, among these,

Rim-join: both flaps are wide, long, and equal.

Lotus-splittable: both flaps are round, long, and equal.

Dried flesh: both flaps are short, round, and equal.

Fastening: one flap is longer on the inside.

Cheek-ear: one flap is longer on the outside.

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¹⁷⁵ Describing ear and nose operations similar to those here, Celsus described the use of a quill (Latin *pinna*) where the Sanskrit authors use a cotton wick (*De Medicina* VII ¶10–11, Spencer 1935–38: 3, 366–367).

¹⁷⁶ Cakrapāṇidatta on 1.16.6 (Su 1939: 127) and Dalhaṇa on 1.16.8 (Su 1938: 77) pointed out that the dilator can be made of wood, such as that of the prickly chaff-flower, the neem tree and tree cotton. Dalhaṇa added that it can also be made of lead and should have the shape of the datura flower. The manuscripts have variant readings for लघुप्रवर्धनकमामुखेत् at this point that include a scribal emendation, none of which construe plausibly. It is possible that the unusual verb form आ+√मुच् puzzled the scribes and caused the implausible scribal readings and emendations.

¹⁷⁷ Dalhaṇa on 1.16.9 (Su 1938: 77) notes that the word दोष here can refer to either a humour, such as wind, as we have understood it, or a disease generated from a humour.

¹⁷⁸ We translate नृणाम् as "person's," not "men's" following Pāṇini 1.2.67 पुमान् स्त्रिया.

¹⁷⁹ The Nepalese version uses the word सन्धान 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: 77) uses the term बन्धे here and at the very beginning of the chapter (i.e., 1.16.1) to introduce the topic of repairing the ear.

¹⁸⁰ For an artist's impression of these different kinds of joins in the ear flap, see Majno 1975: 290 (reproduced as Figure 3.2 in Wujastyk 2003: 154).

¹⁸¹ For an artist's impression of this join, see Majno 1975: 291 (reproduced as Figure 3.3 in Wujastyk 2003: 155).

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Take-away: the flaps are missing, in fact, on both sides.

Ready-split: the flaps are like a dais (पीठ).

Multi-joins: one flap is small, the other thick, one flap is

equal, the other unequal.

Door-hinge: the flap on the inside is long, the other is

small.

Half door-hinge: the flap on the outside is long, the other is

small.

These ten options for joins of the ear should be bound. They can mostly be explained as resembling their names. The five from compressed (संक्षिप्त) on are incurable. 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. "Stickear" has lumpy flesh and the flaps are stretched thin and have stiff ducts. "Crow-lip" has a flap without flesh with compressed tips and little blood. Even when they are bound up, they do not heal because they are hot, inflamed, suppurating, or swollen. A person wishing to perform a join of any of these should

A person wishing to perform a join of any of these should therefore have supplies specially prepared according to the recommendations of the "Preparatory Supplies" chapter. 185

¹⁸² Cakrapāṇidatta on 1.16.9–13 (Su 1939: 128–129) and Dalhaṇa on 1.16.10 (Su 1938: 77–78) provide examples of how the names of these joins describe their shapes. For example, the rim-join (नेमीसन्यानक) is similar to the join of the rim of a wheel (चक्रधारा).

¹⁸³ Dalhana on 1.16.10 (Su 1938: 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.

¹⁸⁴ The version of 1.16.11–13 known to Dalhaṇa (Su 1938: 78) has four verses (श्रोक) 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 Suśrutasaṃ-hitā known to Cakrapāṇidatta. He cites the verses separately in his commentary, the Bhānumatī (Su 1939: 128–129), introducing each one as 'some people read' (के चित्पठन्ति). However, in Trikamajī Ācārya's edition of the Sūtrasthāna of the Bhānumatī, the root text is largely identical to the one commented on by Dalhaṇa (Su 1938), even in instances like this where Cakrapāṇidatta's commentary indicates that he was reading a different version of the Suśrutasaṃhitā. See further the discussion on p. 6 above.

¹⁸⁵ Suśrutasaṃhitā 1.5 (Su 1938: 18–23), probably verse 6 especially, that lists the equipment and medications that a surgeon should have ready.

And in this regard, he should particularly gather¹⁸⁶ top layer of fermented liquor, milk, water, fermented rice-water, and powdered earthenware crockery (ক্যান্তবুৰ্ণ).¹⁸⁷

Next, having made the woman or man tie up the ends of their hair, eat lightly and be firmly held by qualified attendants, the physician considers the joins and then applies them by means of cutting, splitting, scarification, or piercing.¹⁸⁸ Next, he should examine the blood of the ear to know whether it is tainted or not. If it is tainted by wind, the ear should be bathed with fermented rice-water and water; if tainted by choler, then cold water and milk should be used; if tainted by phlegm, then the top layer of fermented liquor and water should be used, and then he should scarify it again.

After arranging the join in the ear so that it is neither proud, depressed, nor uneven, and observing that the blood has stopped, one should anoint it with honey and ghee, bandage each ear with tree cotton and gauze (श्रोत), and bind it up with a thread, neither too tightly nor too loosely. Then, the physician should sprinkle earthenware powder on it and provide medical advice (आचारिक). And he should supplement with food as taught in the "Two Wound" chapter. 189

- 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. ¹⁹⁰ For when the ear is tainted by wind, then

¹⁸⁶ The reading in the Nepalese manuscripts of विशेषतश्चाग्रोपहरणीयात् has been emended to विशेषतश्चात्रोपहरेत् to make sense of the list of ingredients, which is in the accusative case. Also, the repetition of अग्रोपहरणीयात् in the Nepalese version suggests that its second occurrence, which does not make good sense here, is a dittographic error.

¹⁸⁷ The term कपालचूर्ण is unusual. Þalhaṇa (Su 1938: 79) defines it as the powder of fragments of fresh earthen pots and Cakrapāṇidatta (Su 1939: 129) as the powder of earthenware vessels.

¹⁸⁸ There are syntactic difficulties in this sentence. We have adopted the reading in Dalhaṇa's version (Su 1938: 78), which has च कृत्वा following सुपरिगृहीतं. It is likely that a verb, such as कृत्वा, dropped out of the Nepalese transmission.

¹⁸⁹ Suśrutasaṃhitā 4.1 (Su 1938: 396–408).

^{190 1.16.17} of Dalhaṇa's version (Su 1938: 79) reads "impure" for the Nepalese "too pure," which would appear to make better medical sense. Emending the text to नाशुद्ध- for नातिशुद्ध- in the Nepalese version would yield the same meaning as Dalhaṇa's version.

Translation 63

it is obstructed by blood, unhealed and will peel. When tainted with choler, is becomes pinched (गाढ), septic and red. When tainted by phlegm, it will be stiff and itchy. It has excessively copious suppuration and is swollen. It has a small amount of wasted (क्षीण) flesh and it will not grow. 191

- When the ear is properly healed and there are no complications, one may very gradually start to expand it. Otherwise, it may be inflamed (संरम्भ), 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 of the following: the fat and marrow of monitor lizard, of scavenging and seed-eating birds, and of creatures that live in marshes or water,¹⁹² and milk, sesame oil, and white mustard oil.¹⁹³ Then cook the oil with an admixture of the following: purple calotropis, white calotropis, heart-leaf sida, country mallow, country sarsaparilla, Indian kudzu, liquorice, and hornwort.¹⁹⁴ This should then be deposited in a well-protected spot.
- The wise man who has been sweated should rub the massaged ear with it. Then it will be free of complications, and will enlarge properly and be strong. 195

¹⁹¹ In his edition of *Suśrutasaṃhitā*, Ācārya (Su 1938: 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' (आमतैलेन त्रिरात्रं परिषेचयेक्तिरात्राच पिचं परिवर्तयेत).

¹⁹² For such classifications, see the analyses by Zimmermann (1999) and Smith (1994).

¹⁹³ Dalhaṇa's version of 1.16.19 (Su 1938:79) includes ghee. However, Dalhaṇa's remarks on this passage and Cakrapāṇidatta's on 1.16.18 (Su 1939:130) indicate that they knew a version of this recipe, perhaps similar to the Nepalese one, that did not include ghee. Dalhaṇa also noted that others simply read four oils, beginning with fat and without milk, whereas Cakrapāṇidatta said that some say it is made with four oils and milk.

¹⁹⁴ The version of this verse known to Dalhaṇa (vulgate (Su 1938: 79)) adds several ingredients to this admixture, including prickly chaff-flower, Withania, milk-white, sweet plants and Indian ipecac. Also, it has beggarweed instead of Indian kudzu. When commenting on 1.16.19, Dalhaṇa (Su 1938: 79) noted that some do not read sweet plants and Indian ipecac. Therefore, at his time there were other versions of this recipe circulating, with fewer ingredients, as seen in the Nepalese version.

¹⁹⁵ For these aims (i.e., healing and enlarging the ear), the text known to Dalhana (Su 1938:79) had an additional verse and a half describing an ointment for rubbing the ear and sesame oil cooked with various medicines for massage. Cakra-

- 16 Ears which do not enlarge even when sweated and oiled, should be scarified at the edge of the hole, but not outside it.¹⁹⁶
- In this tradition, experts know countless repairs to ears. So a physician who is very intent on working in this way may repair them. 197
- 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. 198
- Now I shall describe the proper method of making a repair when a nose is severed. 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 (ব্য়),¹⁹⁹ with the same measurements, off the cheek, the end of the nose is then scarified.²⁰⁰ Then the undistracted physician, should quickly put it back together so that it is well joined.
 - pāṇidatta (Su 1939: 131) did not comment on these verses, nor verse 15 of the Nepalese version, and so the version of the $Su\acute{s}rutasaṇihit\bar{a}$ known to him may not have included them.
 - 196 Dalhaṇa's version of 1.16.23 (Su 1938:79–80) added another hemistich that stated more explicitly that the scarification should not be done on the outside of the hole as it will cause derangement.
 - 197 After verse 17, the 1938 edition of Ācārya (Su 1938: 80) has in parentheses nine-teen verses on diseases of the ear-lobes, treatments and complications. It is possible that these verses were in some of the witnesses used by Ācārya to construct the text as they occur in other manuscripts, such as MS Hyderabad Osmania 137-3(b). However, Cakrapāṇidatta (Su 1939: 132) and Ḍalhaṇa (Su 1938: 80) stated that some read about the diseases of the ear-lobes in this chapter whereas others read about them in the chapter on various treatments (मिश्रकचिक्त्स) (SS 5.25), which does indeed begin with a discussion of the disease परिपोट. Þalhaṇa went on to say that some believe that these verses were not composed by sages and, therefore, do not read them.
 - 198 The order of verses 17 and 18 is reversed in Dalhana's version (Su 1938: 80).
 - 199 The version of 1.16.28b known to Dalhaṇa (Su 1938:81) reads "bound, connected (ব্রুম্)" instead of "slice of flesh (ব্য়)." 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).
 - 200 Or 1.16.20 could mean, '... off the cheek, it is fixed to the end of the nose, which has been scarified.' Unfortunately, the Sanskrit of the Nepalese version is not unambiguous on the important point of whether or not the flap of grafted skin remains connected to its original site on the cheek. However, Dalhaṇa (Su 1938: 81) clarified the meaning of the vulgate here by stating that one should supply the word "flesh" when reading "connected," thus indicating that he understood the flesh to be connected to the face.

Translation 65

Having carefully observed that it has been sewn up properly, he should then fasten it along with two tubes. ²⁰¹ Having caused it to be raised, ²⁰² the powder of sappanwood, ²⁰³ liquorice and Indian barberry should be sprinkled on it. ²⁰⁴

- The wound should be covered properly with tree cotton 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.²⁰⁵
- And once healed and really come together, what is left of that slice of flesh (ব্য) should then be trimmed.²⁰⁶ If it is reduced, however, one should make an effort to stretch it, and one should make its overgrown flesh smooth.²⁰⁷

²⁰¹ Dalhana noted that the two tubes should be made of reed or the stalk of the leaf of the castor-oil plant (on 1.16.21 (Su 1938:81)). They should not be made of lead or betel nut because the weight will cause them to slip down.

²⁰² The Sanskrit term उन्नामियत्वा in 1.16.21 is non-Pāninian.

²⁰³ For पत्ताङ्ग (sappanwood), there are manuscript variants पत्ताङ्ग (MS Kathmandu NAK 5-333) and पत्तङ्ग (MS Kathmandu NAK 1-1079). Also, MS Kathmandu KL 699 (f. 14r:1) has पत्ताङ्ग in a verse in 1.14 (cf. 1.14.36 (Su 1938: 66)). The text known to Dalhaṇa has पतङ्ग (1.16.29 (Su 1938: 81)) and this term is propagated in modern dictionaries.

²⁰⁴ Dalhana glossed अञ्चन as रसाञ्चन, elixir salve (Su 1938: 81).

²⁰⁵ The expression स्वयथोपदेश is ungrammatical but supported in all available witnesses.

²⁰⁶ The vulgate transmission has lost the word ৰ্ম and replaced it with अर्घ "half," which makes little sense in this surgical context.

²⁰⁷ Dalhaṇa accepted a verse following this, 1.16.32 (Su 1938:81), which pointed out that the procedure for joining the nose is similar to that of joining the lips without fusing the ducts. He noted that earlier teachers did not think this statement on the nose and lips was made by sages, but he included it because it was accepted by Jejjaṭa, Gayadāsa and others, although they did not comment on it because it was easy to understand. Cakrapāṇidatta also did not comment on this additional verse (Su 1939: 133).

Abbreviations

Ah 1939

अष्टाङ्गहृद्यम्, श्रीमद्रुणद्त्तविरचितया सर्वाङ्गसुन्द्राख्यया व्याख्यया, हेमाद्रिप्रणीतया आयुर्वेद्रसायनाह्वया टीकया च समुल्लस्तितम् = The Astāngahṛidaya (6th edn., Muṃbayyām: Nirṇayasāgara Press), https://n2t.net/ark:/13960/t3tt6967d.

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প্রায় স্থান ক্রিয়ার বিদ্যালয় বি

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EWA Mayrhofer, Manfred (1986–2001), Etymologisches Wörterbuch des Altindoarischen (Heidelberg: Carl Winter, Universitätsverlag), ISBN: 3-533-03826-2.

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Abbreviations 69

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Glossary

Numbers after the final colon refer to pages in this book. The symbol \rightarrow means "another name for."

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beggarweed (vidārigandhā) \rightarrow
                                          may sometimes be
   śālaparņī. Desmodium
                                          Cryptolepis or Ichnocarpus
   gangeticum (L.) DC. See
                                          fruitescens R. Rr.
                                          (GVDB: 429-431): 63
   Dymock: 1, 428, GJM1: 602,
   cf. NK: 1, #1192; ADPS: 382,
                                       datura (dhattūra) Datura metel,
   414 and AVS: 2, 319, 4.366
                                          L. See AVS: 2, 305 (cf.
   are confusing: 24, 63
                                          Abhidhānamañjarī), NK: 1,
castor oil tree (gandharvahasta)
                                          #796 ff. Potter<sub>rev</sub>: 292 f,
   \rightarrow eranda. GVDB: 135,
                                          ADPS: 132: 60
   K&B: 3, 2277: 59
                                       elixir salve (ras\bar{a}\tilde{n}jana) \rightarrow a\tilde{n}jana.
castor-oil (eraṇḍa) Ricinus
                                          See Indian barberry: 65
   communis, L. See NK: 1,
                                       fermented rice-water
   #2145, Chopra: 214: 65
                                          (dh\bar{a}ny\bar{a}mla) \rightarrow k\bar{a}\tilde{n}j\bar{\imath}, k\bar{a}\tilde{n}jik\bar{a},
                                          sauvīra. GVDB: 458, NK: 2,
country mallow (atibalā)
                                          appendix VI, #18 : 62
   Abutilon indicum, (L.)
                                       giant potato (kṣīravidārī)
   Sweet, but may be other
   kinds of mallow, e.g., Sida
                                          possibly \rightarrow k \bar{s} \bar{t} r a \hat{s} u k l a. Ipmoea
   rhombifolia, L.. See NK: 1,
                                          mauritiana, Jacq. See
   #11, IGP: 1080, NK: 1, #2300,
                                          ADPS: 510, AVS: 3, 222,
   ADPS: 71, 77: 63
                                          AVS: 3, 1717 ff: 88, 89
country sarsaparilla (anantā)
                                       heart-leaf sida (balā) Sida
   Hemidesmus indicus, (L.) R.
                                          cordifolia, Linn. See
   Br. See ADPS: 434,
                                          ADPS: 71, NK: 1, #2297 : 63
   AVS: 3, 141–5, NK: 1, #1210.
                                       Holostemma creeper (jīvantī)
   But see GVDB: 13 for
                                          → sūryavallī? Holostemma
                                          ada-kodien, Schultes. See
   complications that may
   suggest that it is to be
                                          ADPS: 195, AVS: 3, 167, 169,
   equated with sārivā, which
                                          NK: 1, #1242:88
```

Helianthus annus Linn., but

(Willd.) DC. See ADPS: 510, horned pondweed (śaivāla) also śaivāla, śevāra. Zannichellia AVS: 1, 792 f, AVS: 4, 391; not palustris L. The uncertainties Dymock: 1, 424 f. See of this identification are GJM2: 444, 451, AVS: 1, 187, but AVS: 3, 1719 = Ipmoea discussed by Singh and Chunekar (GVDB: 409). mauritiana, Jacq: 24, 63 Sometimes identified with Indian madder (*mañjisthā*) scutch grass (dūrvā) Rubia cordifolia, L. See IGP, (GVDB: 409). Identified as Chopra: 215, GVDB: 289: 59 Ceratophyllum demersum liquorice (madhuka) see Linn. ("hornwort") by yastīmadhuka: 63 AVS: 2, 56–57x:88 liquorice (yaṣṭīmadhuka) hornwort (jalaśūka) $\rightarrow jalanīlikā$. Glycyrrhiza glabra, L. Ceratophyllum demersum, L. AVS: 3, 84, NK: 1, #1136, See AVS: 2, 56, IGP: 232. GVDB: 329 f.: 65 Singh and Chunekar milk-white (ksīraśuklā) An (GVDB: 166) suggest horned unidentified plant. pondweed. Palhana noted GVDB: 126: see purple on 1.16.19 (Su 1938: 79) that roscoea and giant potato: 24, some people interpret it as a 63, 89 poisonous, hairy, air-breathing, underwater monitor lizard (*godhā*) Varanus creature: 63 bengalensis, Schneider. See Reptiles: 58 : 63 Indian barberry ($a\tilde{n}jana$) \rightarrow rasāñjana, dāruharidrā. neem tree (nimba) Azadirachta Berberis aristata, DC. indica A. Juss. GVDB: 226: 60 Dymock: 1, 65, NK: 1, #335, panacea twiner $(arkapuṣp\bar{\iota}) \rightarrow$ GJM1: 562, IGP: 141: 65, 87 arkaparṇī, Tylophora indica Indian ipecac (payasyā) (Burm. f.) Merr. Uncertain. Possibly GVDB: 23–24. Maybe Tylophora indica (Burm.f.) identical to Indian ipecac, Merr. Perhaps a synonym of giant potato and similar panacea twiner, giant potato, sweet, milky plants. See purple roscoea, and plants GVDB: 24, 127, 238, 441, 443 like asthma plant and Gulf for discussion. For discussion sandmat (GVDB: 237–238). in the context of Holostemma Also "curds" when not a creeper, see ADPS: 195 and plant: 24, 63, 88 AVS: 3, 171. The etymology Indian kudzu ($vid\bar{a}r\bar{i}$) \rightarrow of the name suggests

payasyā. Pueraria tuberosa

Glossary 89

this plant is native to the	sesame oil (taila) Sesamum
Americas: 88	indicum L. GVDB: 183: 63
plants like asthma plant and Gulf sandmat (kṣīriṇī) various milky plants, perhaps including Euphorbia hirta Linn. (asthma plant) and E. microphylla Heyne (Gulf sandmat) (GVDB: 127): 88 prickly chaff-flower (apāmārga) Achyranthes aspera, L. See GJM1: 524 f, AVS: 1, 39, ADPS: 44 f, AVS: 3, 2066 f, Dymock: 3, 135: 23, 60, 63 purple calotropis (arka) Calotropis gigantea, (L.) R. Br. See ADPS: 52, AVS: 1, 341, NK: 1, #427, Potter _{rev} : 57, Chopra IDG: 305–308: 63 purple roscoea (kṣīrakākolī) GVDB: 89 notes that many physicians use Roscoea procera Wall. in this context. But the identification is uncertain. Possibly connected to milk-white or giant potato: 88	spikenard (jaṭāmāṃsī) Nardostachys jatamansi DC GVDB: 163, etc: 25 sweet plants (madhuravarga) The sweet plants are enumerated at Suśrutasaṃhitā 1.42.11. See also GVDB: 127: 24, 63 top layer of fermented liquor (surāmaṇḍa) K&B: 2, 502, NK: 2, appendix VI, #49, McHugh 2021: 39: 62 tree cotton (kārpāsa) G. arboreum L. ADPS: 231. Pace the identifications of Singh and Chunekar (GVDB: 92, 247), since G. barbadense L. is native to South America and G. herbaceum L. which is native to Africa: 60, 89 tree cotton (picu) See tree cottor (kārpāsa): 62, 65 white calotropis (alarka) Calotropis procera, (Ait.) R.
sappanwood (<i>pattāṅga</i>) Also <i>pattaṅga</i> . Caesalpinia sappan, L. AVS: 1, 323, K&B: 2, 847 f,	Br. See NK: 1, #428, Chopra: 46b, Chopra IDG: 305–308: 63
GVDB: 234: 65	Withania (aśvagandhā) Withania
scutch grass $(d\bar{u}rv\bar{a})$ Cynodon	somnifera (L.) Dunal. See
dactylon (Linn.) Pers.	AVS: 5, 409 f, Dymock: 2,
(GVDB: 205): 88	566 f., Chevallier 150 : 24, 63
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A thousand-year-old Ayurvedic manuscript containing the *Compendium of Suśruta* was announced to the scholarly world in 2007. The Nepalese manuscript, since adopted by UNESCO as part of the Memory of the World, reveals the state of classical Indian medicine in the ninth century. It enables us to study the changes in this medical classic that have taken place from the ninth to the nineteenth century, when printed texts began to dominate the dissemination of the work. The present monograph describes the research project focussed on this manuscript and offers an edition, study and translation of the historically important chapter about the plastic surgery on the nose and ears.

