

A Translation of the New Edition of the *Suśrutasaṃhitā*

Jason Birch Dominik Wujastyk Andrey Klebanov

Draft of 13th October 2022
© Jason Birch and Dominik Wujastyk



© Dominik Wujastyk. I am distributing this pre-publication draft under a
Creative Commons Attribution-ShareAlike 4.0 International License.
For details, see <http://creativecommons.org/licenses/by-sa/4.0/>

Contents

The manuscripts and editions used in the vulgate editions by	
Yādavaśarman Trivikrama Ācārya	4
The sources of the 1915 edition	4
The sources of the 1931 edition	4
The sources of the 1938 edition	5
Evaluation	5
The 1939 edition	7
For the Bhānumatī	7
For the Suśrutasaṃhitā	7
Evaluation	9
Features of the manuscript transmission	10
Palaeographical features	10
Chart of characters	10
Sūtrasthāna, adhyāya 1	11
Sūtrasthāna, adhyāya 2	18
Literature	18
Sūtrasthāna, adhyāya 16	19
Sūtrasthāna, adhyāya 28	27
Kalpasthāna, adhyāya 1	28
Literature	28
Manuscript notes	29
Translation	30
[Threats to the king]	30
Kalpasthāna, adhyāya 2	39
Introduction	39
Translation	39
The effects of poisons	44
Symptoms of tuber poisoning	44
Slow-acting poison	47
The stages of toxic shock	48

Remedies for the stages of slow poisoning	49
The ‘invincible’ ghee	51
Curing the ‘slow-acting’ poison	51
Kalpasthāna, adhyāya 3	52
Introduction	52
Translation	52
Uttaratantra, adhyāya 16 (17 in the vulgate)	54
Literature	54
Translation	54
[Complications]	63
[Characteristics of the probe]	63
[Complications]	63
Uttaratantra, adhyāya 38	66
Editions and Abbreviations	78
Botanical Reference Works	81
Index of Manuscripts	82
References	82
Glossary	98
Glossary of Medical Substances	98
On digital critical editions	100

Kalpasthāna, adhyāya 3

Introduction

Translation

1 And now we shall explain the rule (*kalpa*) that is the required knowledge about mobile poisons.²⁰¹

2

3 The full explanation about the sixteen carriers (*adhiṣṭhāna*) of the mobile poisons, that have been mentioned by me in brief, will be stated.

²⁰²

4 In that context, they are:

- sight and breath,
- teeth and nails,
- **mouth**,
- urine and faeces,
- **menstrual blood**,
- semen,
- **penis**,
- saliva,
- **lethal points**,
- nipping with the mouth (*mukhasaṃdaṃśā*),
- fart (*avaśardhita*),²⁰³
- **anus**,²⁰⁴
- bones,
- bile,
- bristles (*śūka*), and
- corpses.

5 TBA

6 **The enemies of the king pollute the waters, roads and foodstuffs in enemy**

Come back to the issue of "kalpa". Look up passages in the Kośa.

²⁰¹ In contrast to stationary, plant poisons. No reference is made to Dhanvantari (see Birch, Wujastyk, Klebanov, Parameswaran, et al. 2021).

²⁰² "Carrier" for base, foundation (*adhiṣṭhāna*) tries to capture the idea that the author will describe the creatures in which poisons inhere.

²⁰³ This interpretation comes from Ḍaḥaṇa on 5.3.4 (Su 1938: 567), but he reads विशर्धित.

²⁰⁴ Ḍaḥaṇa on 5.3.4 (Su 1938: 567) noted this reading.

territory. The experienced physician, who has learned how to purify things, should clean up those polluted things.

- 7 Polluted water is slimy and smells of tears.²⁰⁵ It is covered with froth and covered with streaks. The frogs and fish die, the birds are crazed and, along with the wetland creatures, they wander about aimlessly.
- 8 Men, horses and elephants who swim in it experience vomiting, delusion, fever, swelling and sharp pains.²⁰⁶ He should try to purify that polluted water, after curing their ailments.
- 9 And so, he should burn axlewood and garjan oil tree, as well as corky coral tree, with crimson trumpet-flower tree and small-flowered crape myrtle and weaver's beam tree, and with golden shower tree and white cutch tree. Then he should sprinkle that ash, cold, on the waters.
- 10–11 And in the same way, putting a handful of the ash in a pot, one may also purify water that one wants.
If any one of the limbs of cows, horses, elephants, men or women, touch a place on the ground that enemies have spoiled with poison, or a ford or rock or a flat surface, then it swells up and burns and its hair and nails fall out on that place.²⁰⁷
- 12 In that situation, he should grind up country sarsaparilla together with all the aromatic items, with alcoholic drinks. And then he should sprinkle the paths that need to be used with waters mixed with mud.²⁰⁸ And if there exists another path, he should go by that.²⁰⁹
- 13 When grasses and foods are polluted people collapse, fall unconscious. And others vomit. They have loose stool (*viḍbheda*) or they die. One should apply to them the therapy as described.

205 अस्र normally means “tears,” but rarely means “blood.”

206 On the polysemy of elephant/snake (*nāga*), see Semeka-Pankratov 1979.

207 “Swells up” translates an unclear reading that was probably शूयति, which may be an irregular form of √शू, श्वा, श्वि (see Whitney 1885: 175–176).

208 Our “alcoholic drinks” translates *surā*. For a discussion of this term at our period see McHugh 2021: 37–39 *et passim*.

209 Ḍalhana on 5.3.12 (Su 1938: 568) cited a similar reading for the fourth pāda, but with a negative particle, “and if there is no other way, one should go by that.”

Editions and Abbreviations

Ah 1939	Kuṃṭe, Anṇā Moreśvara, Navare, Kṛṣṇaśāstrī, and Parādkar, Hariśāstrī (1939) (eds.), श्रीमद्वाग्भटविरचितम् अष्टाङ्गहृदयम्, श्रीमदरुणदत्तविरचितया सर्वाङ्गसुन्दराख्यया व्याख्यया, हेमाद्रिप्रणीतया आयुर्वेदरसायनाह्वया टीकया च समुल्लसितम् = <i>The Astāṅgahṛidaya</i> (6th edn., Mum̐bayyām: Nirṇayasāgara Press), ark:/13960/t3tt6967d .
Anup	<i>Anup Sanskrit Library</i> (n.d.).
Anup	<i>Anup Sanskrit Library</i> (n.d.).
Apte	Apte, Vaman Shivaram (1992), <i>The Practical Sanskrit-English Dictionary</i> (Kyoto: Rinsen Book Company), ISBN: 4-653-00038-7; Reprinted from Gode and Karve 1957-9.
AS	<i>Asiatic Society</i> (n.d.).
As 1980	Āṭhavale, Anaṃta Dāmodara (1980) (ed.), <i>Aṣṭāṅgasan̐grahaḥ. Śrīmad Vṛddhavāgbhaṭaviracitaḥ Induvyākhyāsahitaḥ</i> (Pune: Maheśa Anaṃta Āṭhavale, Śrīmad Ātreya Prakāśanam), ark:/13960/t9773bb9z .
Bhela 1921	Mookerjee, Ashutosh and Ananta Krishna Shastri, Vedantabisharad (1921) (eds.), <i>The Bhela Samhita. Sanskrit Text</i> (Calcutta: University of Calcutta), ark : / 13960 / t3sv3157j ; Based on two copies made of the Thanjavur codex unicus (MS Thanjavur TMSSML 10773, Burnell 1880: 63-4, P. P. S. Sastri 1933: #11085).
Bhela 2000	Krishnamurthy, K. H. (2000), <i>Bhela-saṃhitā. Text with English Translation, Commentary and Critical Notes</i> (Haridas Ayurveda Series, 8; Varanasi: Chaukhambha Visvabharati).
BL	<i>British Library</i> (n.d.).
Ca. 1941	Ācārya, Yādavaśarma Trivikrama (1941) (ed.), महर्षिणा पुनर्वसुनोपदिष्टा, तच्छिष्येणाग्निवेशेन प्रणीता, चरकदृढबलाभ्यां प्रतिसंस्कृता चरकसंहिता, श्रीचक्रपाणिदत्तविरचितया आयुर्वेददीपिकाव्याख्यया संवलिता (3rd edn., Mum̐bayyām: Nirṇaya Sagara Press), URL , accessed 01/01/2018.
HIML	Meulenbeld, Gerrit Jan (1999-2002), <i>A History of Indian Medical Literature</i> , 5 vols. (Groningen: E. Forsten), ISBN: 9069801248.

IOLR	Eggeling, Julius et al. (1887–1935), <i>Catalogue of the Sanskrit Manuscripts in the Library of the India Office</i> (London: Secretary of State for India).
KL	<i>Kaiser Library</i> (n.d.).
MW	Monier-Williams, Monier, Leumann, E., Cappeller, C., et al. (1899), <i>A Sanskrit–English Dictionary Etymologically and Philologically Arranged, New Edition</i> (Oxford: Clarendon Press); 1970 reprint.
NAK	<i>National Archives of Kathmandu</i> (n.d.).
NCC	Raghavan, V. et al. (1949–), <i>New Catalogus Catalogorum, an Alphabetical Register of Sanskrit and Allied Works and Authors</i> , 39 vols. (Madras University Sanskrit Series; Madras: University of Madras); v.1: revised edition, 1968.
NGMCP	NGMCP (2014), ‘Nepal-german Manuscript Cataloguing Project. Online Title List and Descriptive Catalogue’, Universität Hamburg and Deutsche Forschungsgemeinschaft, URL .
RORI	<i>Rajasthan Oriental Research Institute</i> (n.d.).
Su 1889	Bhaṭṭācāryya, Jivānanda Vidyāsāgara (1889) (ed.), सुश्रुतः. सूत्र-निदान-शारीर-चिकित्सा-कल्पोत्तर-तन्त्र-कल्पित आयुर्वेद. भगवता धन्वन्तरिणोपदिष्टः सुश्रुतनामधेयेन तच्छिष्येण विरचितः (3rd edn., Calcutta: Saratī Press), ark:/13960/t1nh6j09c ; HIML : IB, 311, edition b.
Su 1915	Ācārya, Yādavaśarma Trivikrama (1915) (ed.), सुश्रुतसंहिता, सुश्रुतेन विरचिता, वैद्यवरश्रीडल्हणाचार्यविरचितया निबन्धसंग्रहाख्यव्याख्यया समुल्लसिता, आचार्योपाह्वेन त्रिविक्रमात्मजेन यादवशर्मणा संशोधिता = <i>The Sushrutasamhita of Sushruta, the Nibandhasangraha Commentary of Shri Dalhaṇāchārya</i> (Mumbayyām: Nirṇayasāgaramudrāyantrālaye), ark:/13960/t3sv0mt50 , accessed 29/07/2020; HIML : IB, 312 edition *v.
Su 1931	Ācārya, Yādavaśarma Trivikrama (1931) (ed.), सुश्रुतसंहिता, वैद्यवरश्रीडल्हणाचार्यविरचितया निबन्धसंग्रहाख्यव्याख्यया समुल्लसिता, महर्षिणा सुश्रुतेन विरचिता, सूत्र-निदान-शारीर-चिकित्सा-कल्पस्थानोत्तरतन्त्रात्मकः. आचार्योपाह्वेन त्रिविक्रमात्मजेन यादवशर्मणा संशोधिता = <i>The Sushrutasamhitā of Sushruta with the Nibandhasangraha Commentary of Shree Dalhaṇāchārya</i> (2nd edn., Mumbayyām: Pāṇḍuraṅga Jāvajī at

- the Nirṇayasāgaramudrāyantrālaye), [ark : / 13960 / t9j41sg94](https://nirayasaagara.org/ark:/13960/t9j41sg94), accessed 09/06/2020; [HIML](https://nirayasaagara.org/HIML): IB, 312 edition *v.
- Su 1938 Ācārya, Yādavaśarma Trivikrama and Ācārya, Nārāyaṇa Rāma (1938) (eds.), श्रीडल्हणाचार्यविरचितया निबन्धसंग्रहाख्यव्याख्यया निदानस्थानस्य श्रीगयदासाचार्यविरचितया न्यायचन्द्रिकाख्यपञ्जिकाव्याख्यया च समुल्लसिता महर्षिणा सुश्रुतेन विरचिता सुश्रुतसंहिता (3rd edn., Bombay: Nirṇayasāgara Press), [ark : / 13960 / t09x0sk1h](https://nirayasaagara.org/ark:/13960/t09x0sk1h); [HIML](https://nirayasaagara.org/HIML): IB, 313, edition cc ('the vulgate').
- Su 1938² Ācārya, Yādavaśarma Trivikrama and Ācārya, Nārāyaṇa Rāma (2004) (eds.), महर्षिणा सुश्रुतेन विरचिता सुश्रुतसंहिता, श्रीडल्हणाचार्यविरचितया निबन्धसंग्रहाख्यव्याख्यया निदानस्थानस्य श्रीगयदासाचार्यविरचितया न्यायचन्द्रिकाख्यपञ्जिकाव्याख्यया च समुल्लसिता (Vārāṇasī: Caukhambhā Kṛṣṇadāsa Akādamī); Reprint of the third, 1938 edition (Su 1938).
- Su 1939 Ācārya, Yādavaśarma Trivikrama and Śarman, Nandakiśora (1939) (eds.), सुश्रुतसंहितायाः सूत्रस्थानम्, श्रीचक्रपाणिदत्तविरचितया भानुमतीव्याख्याया समेतम् = *Sushrut-saṅhitā (sūtra Sthān) with Bhānumatī Commentary by Chakrapāṇi Datta with Introduction by Gaṇanāth Sen* (Śrīsvāmī Lakṣmīrāma Nidhi Granthamālā = Shri Swāmī Lakshmī Rām Trust Series, 1; [Jaipur]: Śyāmasundara Śarman), [ark : / 13960 / t54g0d12m](https://nirayasaagara.org/ark:/13960/t54g0d12m); Printed at the Nirṇayasāgara Press, Bombay.
- Su 1945 Ācārya, Yādavaśarma Trivikramācārya and Ācārya, Nārāyaṇa Rāma (1945) (eds.), महर्षिणा सुश्रुतेन विरचिता सुश्रुतसंहिता (मूलमात्रा). पाठान्तर-परिशिष्टादिभिः संवलित = *the Suśrutasaṃhitā of Suśruta with Various Readings, Notes and Appendix etc.* (Mumbāi: Nirṇayasāgarākhyamudraṇālaye), [URL](https://nirayasaagara.org/URL).
- TMSSML *Tanjore Maharaja Serfoji Saraswati Mahal Library* (n.d.).
- Viṣṇudh. Śarman, Madhusūdana and Śarman, Mādhavaprasāda (1912) (eds.), विष्णुधर्मोत्तरपुराणम् = *[Viṣṇudharmottarapurāṇa]* (Mumbai: Khemarāja Śrīkṛṣṇadāsa at the Śrīveṅkaṭeśvara Steam Press), [ark : / 13960 / t6qz6fr23](https://nirayasaagara.org/ark:/13960/t6qz6fr23); Lithograph format. Edited on the basis of a manuscript belonging to the astrologer Śudhākaraśarman of the Varanasi Sanskrit Pāṭhaśālā.

Botanical Reference Works

- ADPS Sivarajan, V. V. and Balachandran, Indira (1994), *Ayurvedic Drugs and Their Plant Sources* (New Delhi, Bombay, Calcutta: Oxford & IBH Publishing).
- AVS Warriar, P. K., Nambiar, V. P. K., and Ramankutty, C. (1994–6) (eds.), *Indian Medicinal Plants: A Compendium of 500 Species. Vaidyaratnam P. S. Varier's Arya Vaidya Sala, Kottakal* (Madras: Orient Longman).
- CIPP Pillay, V. V. (2010), 'Common Indian Poisonous Plants', in D. A. Warrell, T. M. Cox, and J. D. Firth (eds.), *Oxford Textbook of Medicine* (5th edn., Oxford University Press), 1371–5. DOI: [10.1093/med/9780199204854.003.090302](https://doi.org/10.1093/med/9780199204854.003.090302).
- Dutt Dutt, Uday Chand (1922), *The Materia Medica of the Hindus...with a Glossary of Indian Plants by George King. Revised Edition...by Binod Lall Sen and Ashutosh Sen and Pulin Krishna Sen* (Krishnadas Sanskrit Studies; 3rd edn., Calcutta: Madan Gopal Dass for the Adi-Ayurveda Machine Press), [URL](#), accessed 04/10/2017; Re-printed Varanasi: Chowkhamba Saraswatibhavan, 1980.
- GIMP Chopra, R. N., Nayar, S. L., and Chopra, I. C. (1956), *Glossary of Indian Medicinal Plants* (3rd reprint, 1992, New Delhi: Council of Scientific and Industrial Research); vol. 2: R. N. Chopra, I. C. Chopra, and Varma ([GIMP suppl.](#)).
- GIMP suppl. Chopra, R. N., Chopra, I. C., and Varma, B. S. (1969), *Supplement to Glossary of Indian Medicinal Plants* (Reprint 1986, New Delhi: National Institute of Science Communication), ISBN: 8185038872.
- GVDB Singh, Thakur Balwant and Chunekar, K. C. (1972), *Glossary of Vegetable Drugs in Brhatrayi* (Varanasi: Chowkhamba Sanskrit Series Office).
- IGP Griffiths, Mark (1994), *The New Horticultural Society Index of Garden Plants* (London: Macmillan).

- NK Nadkarni, K. M. (1982a), *Dr. K. M. Nadkarni's Indian Materia Medica, with Ayurvedic, Unani-tibbi, Siddha, Allopathic, Homeopathic, Naturopathic & Home Remedies, Appendices & Indexes ... in Two Volumes*, ed. A. K. Nadkarni, 2 vols. (3 ed., revised and enlarged by A. K. Nadkarni, Bombay: Popular Prakashan), ISBN: 8171541429, [URL](#).

Index of Manuscripts

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

Thanjavur TMSSML 10773: 78

References

- Ācārya, Yādavaśarma Trivikrama (1941) (ed.), महर्षिणा पुनर्वसुनोपदिष्टा, तच्छिष्येणाग्निवेशेन प्रणीता, चरकदृढबलाभ्यां प्रतिसंस्कृता चरकसंहिता, श्रीचक्रपाणिदत्तविरचितया आयुर्वेददीपिकाव्याख्यया संवलिता (3rd edn., Mumbayyām: Nirnaya Sagara Press), [URL](#), accessed 01/01/2018.
- Ācārya, Yādavaśarma Trivikramācārya and Ācārya, Nārāyaṇa Rāma (1945) (eds.), महर्षिणा सुश्रुतेन विरचिता सुश्रुतसंहिता (मूलमात्रा). पाठान्तर-परिशिष्टादिभिः संवलिता = *the Suśrutasaṃhitā of Suśruta with Various Readings, Notes and Appendix etc.* (Mumbāi: Nirṇayasāgarākhyamudraṇālaye), [URL](#).
- Adriaensen, Rob, Barkhuis, Roelf, and Ruijters, Jean-Louis (1984), 'An English Translation of Suśrutasaṃhitā, Nidānasthāna 1, 1–39, Together with Gayadāsa's Nyāyacandrikā', in Gerrit Jan Meulenbeld (ed.), *Proceedings of the International Workshop on Priorities in the Study of Indian Medicine* (Groningen: Forsten), 277–310.
- Adriaensen, Rob C. R., Barkhuis, Roelf, and Ruijters, Jean-Louis (1984), 'An English Translation of Suśrutasaṃhitā, Nidānasthāna 1, 1–39, Together with Gayadāsa's Nyāyacandrikā', in Gerrit Jan Meulenbeld (ed.), *Proceedings of the International Workshop on Priorities in the Study of Indian Medicine* (Groningen: Forsten), 277–310.

- Agrawala, V. S. (1963), *India As Known to Pāṇini: A Study of the Cultural Material in the Aṣṭādhyāyī* (2nd edn., Varanasi: Prthvi Prakashan); First published in 1953.
- Angermeier, Vitus (2020), *Regenzeiten, Feuchtgebiete, Körpersäfte. Das Wasser in der klassischen indischen Medizin* (Wien: Österreichische Akademie der Wissenschaften).
- Baber, Zaheer (1996), *The Science of Empire: Scientific Knowledge, Civilization, and Colonial Rule in India* (Albany: State University of New York Press).
- Bakker, Hans T. (2019), 'Some Methodological Considerations with Respect to the Critical Edition of Puranic Literature', in *Holy Ground: Where Art and Text Meet* (Leiden: Brill), 175–84. DOI: [10.1163/9789004412071_010](https://doi.org/10.1163/9789004412071_010).
- Barceloux, Donald G. (2008), *Medical Toxicology of Natural Substances. Foods, Fungi, Medicinal Herbs, Plants, and Venomous Animals* (Hoboken, NJ, etc.: John Wiley & Sons), 1196 pp., ISBN: 047172761X, [URL](https://doi.org/10.1002/978047172761X).
- Bausi, Alessandro et al. (2015), *Comparative Oriental Manuscript Studies. An Introduction* (Hamburg: Tredition). DOI: [10.5281/ZENODO.46784](https://doi.org/10.5281/ZENODO.46784).
- Bendall, Cecil (1883), *Catalogue of the Buddhist Sanskrit, Manuscripts in The, University Library, Cambridge: With Introductory Notices and Illustrations of the Palaeography and Chronology of Nepal and Bengal* (Cambridge: University Press), [ark:/13960/t03x8vz7b](https://nbn-resolving.org/urn:nbn:uk:2019-06-013960-t03x8vz7b).
- Bhaṭṭācārya, Candrakānta (1910–7) (ed.), सुश्रुतसंहिता प्रथमखण्डम् सूत्रस्थानात्मकम् हाराणचन्द्रचक्रवर्तिकविराजविरचितसुश्रुतार्थसन्दीपनभाष्य-समेतम्...चन्द्रकान्त भट्टाचार्य-प्रमुखैः संशोधितम् = [The *Suśrutasamhitā* with the Commentary *Suśrutārthasandīpanabhāṣya* by Hārāṇacandra Cakravartī] (Kalikātā: Satya Press); Edition "t" in [HIML](https://www.himl.org/): IB, 312.
- Bhattarai, Bidur (2020), *Dividing Texts. Conventions of Visual Text-Organisation in Nepalese and North Indian Manuscripts* (Studies in Manuscript Cultures; Berlin/Boston: de Gruyter), 388.
- Birch, Jason, Wujastyk, Dominik, Klebanov, Andrey, Parameswaran, Madhu K., et al. (2021), 'Further Insight into the Role of Dhanvantari, the Physician to the Gods, in the *Suśrutasamhitā*', *Academia Letters*. DOI: [10.20935/AL2992](https://doi.org/10.20935/AL2992).
- Birch, Jason, Wujastyk, Dominik, Klebanov, Andrey, Rimal, Madhusudan, et al. (2021), 'Dalhaṇa and the Early 'Nepalese' Version of the *Suśrutasamhitā*'. DOI: [10.20935/a13733](https://doi.org/10.20935/a13733).

- Bollée, Willem (2010), 'Remarks on the Cultural History of the Ear in India', in Nalini Balbir (ed.), *Svasti: Essays in Honour of Professor Hampa Nagarajaiah for His 75th Birthday* (Bangalore: K. S. Mudappa Smaraka Trust), 141–67, [URL](#), accessed 23/01/2022.
- Breton, P. (1826), 'On the Native Mode of Couching', *Transactions of the Medical and Physical Society of Calcutta*, 2: 341–82, [ark:/13960/t3dz8nn5t](#), [URL](#), accessed 02/06/2021.
- Bronkhorst, Johannes (2016), *How the Brahmins Won: From Alexander to the Guptas* (Leiden: Brill). DOI: [10.1163/9789004315518](#).
- (2021), 'Patañjali's Āryāvarta = Śuṅga realm?', *Academia Letters*. DOI: [10.20935/a1291](#); Article 291.
- Bronner, Yigal (2021) (ed.), 'The Pandit Project' (30 Sept.), [URL](#).
- Burghart, Marjorie (2016), 'The TEI Critical Apparatus Toolbox: Empowering Textual Scholars through Display, Control, and Comparison Features', *Journal of the Text Encoding Initiative*, 10/Issue 10. DOI: [10.4000/jtei.1520](#), [URL](#), accessed 12/12/2017.
- (2017), 'Textual Variants', in Marjorie Burghart, James Cummings, and Elena Pierazzo (eds.), *Digital Editing of Medieval Texts: A Textbook* (DEMM), [URL](#), accessed 04/07/2021.
- Burnell, Arthur Coke (1880), *A Classified Index to the Sanskrit Mss. in the Palace at Tanjore* (London: Trübner), [ark:/13960/t4xh86j61](#); *Bhelaṣaṃhitā* described on pp. 67 ff.
- Carpue, J. C. (1816), *An Account of Two Successful Operations for Restoring a Lost Nose from the Integuments of the Forehead...Including Descriptions of the Indian and Italian Methods* (London: Longman et al.), [ark:/13960/t2q57fn42](#), accessed 20/03/2019.
- Cone, Margaret (2001), *A Dictionary of Pāli* (Oxford: The Pali Text Society), ISBN: 0 86013 394 x.
- Cordier, P. (1903), 'Récentes découvertes de mss. médicaux sanscrits dans l'Inde (1898–1902)', *Muséon, Nouvelle Série*, 4: 321–52, [ark:/13960/t26b2j457](#), accessed 02/01/2020; Reprinted in Roṣu 1989: 539–70.
- Coult, Ro. (1731), 'An Account of the Diseases of Bengall', in *Indian Science and Technology in the Eighteenth Century* (Impex India), 141 f., 276.

- Crawford, D. G. (1930), *Roll of the Indian Medical Service, 1615–1930* (London, Calcutta, Simla: Thacker).
- Das, Rahul Peter (2003), *The Origin of the Life of a Human Being. Conception and the Female According to Ancient Indian Medical and Sexological Literature* (Indian Medical Tradition; Delhi: Motilal Banarsidas), ISBN: 81-208-1998-5.
- Dave, K. N. (1985), *Birds in Sanskrit Literature* (Delhi: Motilal Banarsidass), ISBN: 0-89581-676-8, [ark:/13960/t2c94cv80](https://nbn-resolving.org/urn:nbn:in:shiksha-13960-t2c94cv80).
- Deshpande, Vijaya (1999), 'Indian Influences on Early Chinese Ophthalmology: Glaucoma As a Case Study', *Bulletin of the School of Oriental and African Studies*, 62: 306–22. DOI: [10.1017/S0041977X00016724](https://doi.org/10.1017/S0041977X00016724).
- (2000), 'Ophthalmic Surgery: A Chapter in the History of Sino-indian Medical Contacts', *Bulletin of the School of Oriental and African Studies*, 63/3: 370–88, ISSN: 0041-977X. DOI: [10.1017/s0041977x00008454](https://doi.org/10.1017/s0041977x00008454).
- Dimitrov, Dragomir and Tamot, Kashinath (2007), 'Kaiser Shamsher, His Library and His Manuscript Collection', *Kaiser Shamsher, His Library and His Manuscript Collection*, 3 (Jan.): 26–36, [URL](https://www.jstor.org/stable/2344844).
- Edgerton, Franklin (1939), 'The Epic Triṣṭubh and Its Hypermetric Varieties', *Journal of the American Oriental Society*, 59/2: 159–74. DOI: [10.2307/594060](https://doi.org/10.2307/594060).
- (1953), *Buddhist Hybrid Sanskrit Grammar and Dictionary. Vol. 2: Dictionary* (William Dwight Whitney Linguistic Series; New Haven: Yale University Press).
- Eggeling, Julius et al. (1887–1935), *Catalogue of the Sanskrit Manuscripts in the Library of the India Office* (London: Secretary of State for India).
- Elliot, Robert Henry (1918), *The Indian Operation of Couching for Cataract: Incorporating the Hunterian Lectures Delivered before the Royal College of Surgeons of England on February 19 and 21, 1917* (London: H. K. Lewis).
- Emeneau, M. B. (1969), 'Sanskrit Syntactic Particles – "kila, khalu, nūnam"', *Indo-Iranian Journal*, 11/4: 241–68.
- Falk, Harry (1991), 'Silver, Lead and Zinc in Early Indian Literature', *South Asian Studies*, 7/1: 111–7. DOI: [10.1080/02666030.1991.9628430](https://doi.org/10.1080/02666030.1991.9628430).
- Fan, Ka Wai (2005), 'Couching for Cataract and Sino-indian Medical Exchange From the Sixth to the Twelfth Century AD', *Clinical and Experimental Ophthalmology*: 188–90. DOI: [10.1111/j.1442-9071.2005.00978.x](https://doi.org/10.1111/j.1442-9071.2005.00978.x); Unaware of Deshpande 1999; 2000.

- Fitzgerald, James L. (2009), 'A Preliminary Study of the 681 Triṣṭubh Passages of the Mahābhārata', in Robert P. Goldman and Muneo Tokunaga (eds.), *Epic Undertakings* (Papers of the 12th World Sanskrit Conference; Delhi: Motilal Banarsidass Publishe), 95–117.
- Gaṇapatiśāstrī, T. (1920–5), *Āryamañjuśrīmūlakalpāḥ* (Trivandrum Sanskrit Series, 70; Anantaśayane: Rājākīyamudraṇayantrālaye), [ark : / 13960 / t4pk5sj0j](https://nopr.sri-gurukul.com/handle/123456789/13960/t4pk5sj0j).
- Gode, P. K. and Karve, C. G. (1957–9) (eds.), *Revised and Enlarged Edition of Prin. V. S. Apte's the Practical Sanskrit-English Dictionary* (Poona: Prasad Prakashan), [ark : /13960/t3gx47212](https://nopr.sri-gurukul.com/handle/123456789/13960/t3gx47212), accessed 20/10/2017.
- Gombrich, Richard (1979), 'He cooks softly': dverbs in Sanskrit grammar', *Bulletin of the School of Oriental and African Studies*, 42/2 (June): 244–56. DOI: [10.1017/s0041977x0014580x](https://doi.org/10.1017/s0041977x0014580x).
- Gupta, Sri Madhusudana (1835–6) (ed.), *Āyur-veda-prakāśa [also Called Suśruta-saṃhitā] by Suśruta. the Suśruta, or System of Medicine, Taught by Dhanwantari, and Composed by His Disciple Suśruta*, 2 vols. (Calcutta: Education Press and Baptist Mission Press), [ark : /13960/t6841qw6x](https://nopr.sri-gurukul.com/handle/123456789/13960/t6841qw6x).
- Harimoto, Kengo (2011), 'In Search of the Oldest Nepalese Manuscript', *Rivista degli Studi Orientali*, 84/1–4: 85–106, ISSN: 0392-4866, [URL](https://nopr.sri-gurukul.com/handle/123456789/13960/t6841qw6x), accessed 08/09/2019.
- (2014), 'Nepalese Manuscripts of the Suśrutasaṃhitā', *Journal of Indian and Buddhist Studies (Indogaku Bukkyogaku Kenkyu)*, 62/3: 23–29 (1087–1093). DOI: [10.4259/ibk.62.3_1087](https://doi.org/10.4259/ibk.62.3_1087), [URL](https://nopr.sri-gurukul.com/handle/123456789/13960/t6841qw6x), accessed 08/09/2019.
- (pre-published), '[Preliminary Edition of the Nepalese MSS of the Suśruta-saṃhitā, adhyāyas 1.1–3, 6.4]'; Unpublished document dated 2010.
- Hayashi, Takao (2017), 'The Units of Time in Ancient and Medieval India', *History of Science in South Asia*, 5/1: 1–116. DOI: [10.18732/h2ht0h](https://doi.org/10.18732/h2ht0h).
- Hemarāja Śarman (1938) (ed.), काश्यपसंहिता (वृद्धजीवकीयं तन्त्रं वा) महर्षिणा मारीचक-श्यपेनोपदिष्टा ... हेमराजशर्मणा लिखितेन विस्तृतेन उपोद्धातेन सहिता ... सत्यपाल भिषगा कृतया विद्योतिनी हिन्दीव्याख्यया ... समुल्लसिता (1st edn., Mumba: Nirṇayasāgara Press), [URL](https://nopr.sri-gurukul.com/handle/123456789/13960/t6841qw6x), accessed 02/02/2018.
- Hendley, T. Holbein (1895), *A Medico-topographical Account of Jeypore, Based on the Experience of Twenty Years' Service As a Residency Surgeon and Thirteen As Superintendent of Dispensaries at Jeypore, Rajputana* (Calcutta: Calcutta Central Press Company).

- Hessler, Franciscus (1844–55), *Suśrutas Ayurvédas: id est Medicinae Systema a Venerabili D’hanvantare Demonstratum a Susruta Discipulo Compositum; Nunc Primum Ex Sanskrita in Latinum Sermonem Vertit, Introductionem, Annotationes Et Rerum Indice Franciscus Hessler* (Erlangen: Ferdinandum Enke), [URL](#), accessed 04/11/2017.
- Hoernle, A. F. Rudolf (1893–1912) (ed.), *The Bower Manuscript: Facsimile Leaves, Nagari Transcript, Romanised Transliteration and English Translation with Notes* (New Imperial Series, 22; Calcutta: Government of India and under the patronage of the Bengali Government, Archaeological Survey of India), [ark:/13960/t05z1bg4q](#).
- (1897), *Suśrutasamhitā = The Suśruta-Samhitā or the Hindū System of Medicine According to Suśruta Translated from the Original Sanskrit* (Bibliotheca Indica, 911; Calcutta: Asiatic Society), [ark:/13960/t8pd1kw9r](#), accessed 03/01/2018; No more published; Hoernle does not state which edition he is translating, but it includes the "Dhanvantari phrase".
- (1906a), 'Studies in Ancient Indian Medicine I: The Commentaries on Suśruta', *Journal of the Royal Asiatic Society of Great Britain and Ireland*: 283–302, [URL](#), accessed 26/06/2019.
- (1906b), 'Studies in Ancient Indian Medicine II: On Some Obscure Anatomical Terms', *Journal of the Royal Asiatic Society of Great Britain and Ireland*, 4: 915–41, [URL](#), accessed 25/06/2019.
- (1907a), 'Studies in Ancient Indian Medicine II: On Some Obscure Anatomical Terms (Continued from the the Journal, 1906, p. 941)', *Journal of the Royal Asiatic Society of Great Britain and Ireland*: 1–18, [URL](#), accessed 25/06/2019.
- (1907b), *Studies in the Medicine of Ancient India: Osteology or the Bones of the Human Body* (Oxford: Clarendon Press), [ark:/13960/t1pg9cq8b](#).
- Hofer, Theresia (2007), 'Swami Laxmi Ram's Ayurvedic Pharmacy in Jaipur, India', *Wellcome History*, 34: 2–3, [URL](#), accessed 01/07/2021.
- Holwell, J. Z. (1767), *An Account of the Manner of Inoculating for the Small Pox in the East Indies With...Observations on The...Mode of Treating That Disease in Those Parts* (London: T. Becket & P. A. de Hondt), [ark:/13960/t3ws9h63c](#).
- Jack, David Morton (1884), 'A Thesis on Cataract in India: Its Pathology and Treatment', Wellcome Library, London, MS.3007, [URL](#), accessed 02/06/2021.

- Joṣī, Venīmādhavaśāstrī and Joṣī, Nārāyaṇa Harī (1968), *Āyurvedīya Mahākośaḥ arthāt Āyurvedīya Śabdakośaḥ Saṃskṛta–Saṃskṛta* (Mumbai: Mahārāṣṭra Rājya Sāhitya āṇi Saṃskṛti Maṃḍala), [URL](#).
- Kangle, R. P. (1969), *The Kauṭīliya Arthaśāstra* (2nd edn., Delhi: Motilal Banarsidass), ISBN: 81-208-0042-7, [ark:/13960/t3gz6qh1s](#), accessed 23/09/2021.
- Keith, Arthur Berriedale (1908), review of A. F. Rudolf Hoernle (1907), ‘Studies in Ancient Indian Medicine II: On Some Obscure Anatomical Terms (Continued from the the Journal, 1906, p. 941)’, *Journal of the Royal Asiatic Society of Great Britain and Ireland*: 1–18, [URL](#), accessed 25/06/2019, in *Zeitschrift Der Deutschen Morgenländischen Gesellschaft*, 1/62: 134–9, [URL](#), accessed 17/04/2021.
- Klebanov, Andrey (2010), ‘The *Nepalese Version of the Suśrutasamhitā and Its Interrelation with Buddhism and the Buddhists’, MA thesis (Hamburg: Hamburg University, Sept.), [URL](#), accessed 08/09/2019.
- (2021a), ‘On the Textual History of the Suśrutasamhitā (1): A Study of Three Nepalese Manuscripts’, *eJIM: Electronic Journal of Indian Medicine*, 12/1: 1–64. DOI: [10.21827/ejim.12.1.37385](#).
- (2021b), ‘On the Textual History of the Suśrutasamhitā, (2): An Anonymous Commentary and its Identified Citations’, in Toke Lindegaard Knudsen, Jacob Schmidt-Madsen, and Sara Speyer (eds.), *Body and Cosmos: Studies in Early Indian Medical and Astral Sciences in Honor of Kenneth G. Zysk* (Leiden, Boston: Brill), 110–39.
- Kuist, James M. (1982), *The Nichols File of The Gentleman’s Magazine* (Madison: University of Wisconsin Press), ISBN: 0-299-08480-9, [ark:/13960/t53g2ct2z](#).
- Lariviere, Richard W. (2003), *The Nāradaśmṛti. Critically Edited with an Introduction, annotated Translation, and Appendices* (2nd edn., Delhi: Motilal Banarsidass), ISBN: 8120818040; First edition: Philadelphia, 1989.
- Leffler, Christopher T. et al. (2020), ‘The History of Cataract Surgery: From Couching to Phacoemulsification’, *Annals of Translational Medicine*, 8/22: 1551–97, ISSN: 2305-5847. DOI: [10.21037/atm-2019-rct-04](#), [URL](#), accessed 02/11/2020.
- Lienhard, Siegfried (1978), ‘On the Meaning and Use of the Word Indragopa’, *Indologica taurinensia*, 6: 177–88, [URL](#), accessed 06/02/2021; The indragopa is a ‘red velvet mite’.

- Longmate, Barak (1794), ‘A Curious Chirurgical Operation’, *The Gentleman’s Magazine and Historical Chronicle*, 64.4 (Oct.): 883, 891, 892; I am grateful to the late John Symons of the Wellcome Library who identified the author ‘B. L.’ as the journalist Barak Longmate. See also Kuist 1982: 87.
- Majno, Guido (1975), *The Healing Hand. Man and Wound in the Ancient World* (Cambridge, MA: Harvard University Press), [URL](#), accessed 26/08/2021.
- Malamoud, Charles (1996), ‘Paths of the Knife: Carving up the Victim in Vedic Sacrifice’, in *Cooking the World: Ritual and Thought in Ancient India. Translated from the French by David White* (Delhi, Bombay, etc.: Oxford University Press), 169–80.
- Manucci, Niccolò (1907–8), *Storia Do Mogor or, Mogul India, 1653–1708 by Niccolao Manucci, Venetian; Translated with Introduction and Notes, by William Irvine* (The Indian Texts Series; London: J. Murray), [URL](#), accessed 04/10/2021.
- Masai, François (1950), ‘Principes et conventions de l’édition diplomatique’, *Scriptorium*, 4: 177–93. DOI: [10.3406/scrip.1950.2294](#).
- Mayrhofer, Manfred (1953–72), *Kurzgefaßtes etymologisches Wörterbuch des Altindoarischen; a Concise Etymological Sanskrit Dictionary* (Heidelberg: Carl Winter, Universitätsverlag).
- (1986–2001), *Etymologisches Wörterbuch des Altindoarischen* (Heidelberg: Carl Winter, Universitätsverlag), ISBN: 3-533-03826-2.
- McHugh, James (2021), *An Unholy Brew: Alcohol in Indian History and Religions* (New York: Oxford University Press), 416 pp., ISBN: 9780199375936, [URL](#).
- Meulenbeld, Gerrit Jan (1974), *The Mādhavanidāna and Its Chief Commentary: Chapters 1–10. Introduction, Translation, and Notes* (Leiden: Brill), ISBN: 978-90-04-03892-9; Meulenbeld provided a supplement to his 1974 listing of plant identities as an appendix in Das 2003.
- (1984), ‘The Surveying of Sanskrit Medical Literature’, in id. (ed.), *Proceedings of the International Workshop on Priorities in the Study of Indian Medicine* (Groningen: Forsten), 37–56.
- (1989), ‘The Search for Clues to the Chronology of Sanskrit Medical Texts As Illustrated by the History of Bhaṅgā (cannabis Sativa Linn.)’, *Studien zur Indologie und Iranistik*, 15: 59–70.
- (1992), ‘The Characteristics of a Doṣa’, *Journal of the European Āyurvedic Society*, 2/1: 1–5, [URL](#), accessed 31/08/2021.

- Meulenbeld, Gerrit Jan (2008), *The Mādhavanidāna with "Madhukośa," the Commentary by Vijayarākṣita and Śrīkaṇṭhadatta (Ch. 1-10). Introduction, Translation, and Notes* (Delhi: Motilal Banarsidass); Meulenbeld provided a supplement to his 1974 listing of plant identities as an appendix in Das 2003.
- (2011), 'The Relationships between Doṣas and Dūṣyas: A Study on the Meaning(s) of the Root Murch-/mūrch', *eJournal of Indian Medicine*, 4/2: 35–135, [URL](#), accessed 13/10/2017.
- Miles, M. (1999), 'Personal Communication', Mar.; Letter of 4 March.
- Moureau, Sébastien. (2015), 'The Apparatus Criticus', in Alessandro Bausi et al. (eds.), *Comparative Oriental Manuscript Studies: An Introduction* (Hamburg: Tredition), 348–52, ISBN: 978-3-7323-1768-4, [URL](#), accessed 04/07/2021.
- Mukhopādhyāya, Girindranāth (1913), *The Surgical Instruments of the Hindus, with a Comparative Study of the Surgical Instruments of the Greek, Roman, Arab, and the Modern Eouropean (sic) Surgeons* (Calcutta: Calcutta University), [ark : 13960 / t1zd2pq29](#), accessed 29/01/2018; Vol.2: [ark:/13960/t9r25qd8m](#). Reprinted as a single volume, New Delhi, 1987.
- Nadkarni, K. M. (1954), *Dr. K. M. Nadkarni's Indian Materia Medica, with Ayurvedic, Unani-tibbi, Siddha, Allopathic, Homeopathic, Naturopathic & Home Remedies, Appendices & Indexes ... in Two Volumes*, ed. A. K. Nadkarni, 2 vols. (3 ed., revised by A. K. Nadkarni, Bombay: Popular Prakashan), [ark:/13960/t6rz4h160](#).
- (1982a), *Dr. K. M. Nadkarni's Indian Materia Medica, with Ayurvedic, Unani-tibbi, Siddha, Allopathic, Homeopathic, Naturopathic & Home Remedies, Appendices & Indexes ... in Two Volumes*, ed. A. K. Nadkarni, 2 vols. (3 ed., revised and enlarged by A. K. Nadkarni, Bombay: Popular Prakashan), ISBN: 8171541429, [URL](#).
- Narayana, Ala and Thrigulla, Saketh Ram (2011), 'Tangible Evidences of Surgical Practice in Ancient India', *Journal of Indian Medical Heritage*, 16: 1–18, [URL](#), accessed 02/06/2021.
- NGMCP (2014), 'Nepal-german Manuscript Cataloguing Project. Online Title List and Descriptive Catalogue', Universität Hamburg and Deutsche Forschungsgemeinschaft, [URL](#).
- Oberlies, Thomas (2003), *A Grammar of Epic Sanskrit* (Indian Philology and South Asian Studies, 5; Berlin: De Gruyter), ISBN: 9783110144482. DOI: [10.1515/9783110899344](#).

- Olivelle, Patrick (2005), *Manu's Code of Law: A Critical Edition and Translation of the Manava-dharmasastra*, With the editorial assistance of Suman Olivelle (South Asia research; New York: Oxford University Press), ISBN: 0195171462.
- (2013), *King, Governance, and Law in Ancient India: Kauṭilya's Arthaśāstra. a New Annotated Translation* (New York: Oxford University Press), ISBN: 9780199891825. DOI: [10.1093/acprof:osobl/9780199891825.003.0001](https://doi.org/10.1093/acprof:osobl/9780199891825.003.0001).
- Osbaldeston, Tess Anne and Wood, R. P. A. (2000), *Dioscorides. De Materia Medica. Being an Herbal with Many Other Medicinal Materials Written in Greek in the First Century of the Common Era. a New Indexed Version in Modern English* [Introductory Notes by R. P. Wood] (Johannesburg: IBIDIS Press), ISBN: 0-620-23435-0, [URL](#).
- Pandey, Anshuman (2012), 'Proposal to Encode the Newar Script in ISO/IEC 10646', [URL](#).
- Pass, Gregory (2003), *Descriptive Cataloging of Ancient, Medieval, Renaissance, and Early Modern Manuscripts* (Chicago: American Library Association), ISBN: 0-8389-8218-2, [URL](#).
- Pillay, V. V. (2013), *Modern Medical Toxicology* (New Delhi: Jaypee Brothers Pvt. Ltd), ISBN: 9789350259658.
- Pillay, Vijay V. and Sasidharan, Anu (2019), 'Oleander and Datura Poisoning: An Update', *Indian Journal of Critical Care Medicine*, 23/Supplement 4: 5250–5. DOI: [10.5005/jp-journals-10071-23302](https://doi.org/10.5005/jp-journals-10071-23302).
- Preisendanz, Karin (2007), 'The Initiation of the Medical Student in Early Classical Āyurveda: Caraka's Treatment in Context', in Birgit Kellner et al. (eds.), *Pramāṇakīrtiḥ. Papers Dedicated to Ernst Steinkellner on the Occasion of His 70th Birthday. Part 2*, ii, 2 vols. (Wiener Studien zur Tibetologie und Buddhismuskunde, 70.2; Wien: Arbeitskreis für Tibetische Und Buddhistische Studien Universität Wien), 629–68, ISBN: 9783902501097, [URL](#).
- Price, Kenneth M. (2013), 'Electronic Scholarly Editions', in Ray Siemens and Susan Schreibman (eds.), *A Companion to Digital Literary Studies* (Chichester, UK: John Wiley & Sons, Ltd), 434–50. DOI: [10.1002/9781405177504.ch24](https://doi.org/10.1002/9781405177504.ch24), [URL](#), accessed 04/07/2021.
- Rai, Saurav Kumar (2019), 'Invoking 'Hindu' Ayurveda: Communalisation of the Late Colonial Ayurvedic Discourse', *The Indian Economic & Social History Review*, 56/4: 411–26. DOI: [10.1177/0019464619873820](https://doi.org/10.1177/0019464619873820); Online first.

- Rama Rao, B. et al. (2005), *Sanskrit Medical Manuscripts in India* (New Delhi: Central Council for Research in Ayurveda & Siddha), [ark:/13960/t88h7763b](https://nopr.sri-ceeres.in/handle/123456789/13960/t88h7763b).
- Rây, Priyadarajan, Gupta, Hirendra Nath, and Roy, Mira (1980), *Suśruta Saṃhita (a Scientific Synopsis)* (New Delhi: Indian National Science Academy), [ark:/13960/t64511t6v](https://nopr.sri-ceeres.in/handle/123456789/13960/t64511t6v), accessed 13/09/2019.
- Rhys Davids, Thomas William and Stede, William (1921–5), *The Pali Text Society's Pali-English Dictionary* (London: The Pali Text Society), [URL](https://www.palitext.com/).
- Rimal, Madhusudana and Wujastyk, Dominik (2022), 'MS Kathmandu NAK 1/1146', Pandit Project (18 May), [URL](https://panditproject.org/).
- Roşu, Arion (1989), *Un demi-siècle de recherches āyurvédiques. Gustave Liétard et Palmyr Cordier: Travaux sur l'histoire de la médecine indienne* (Paris: Institut de Civilisation Indienne).
- Saha, Mridula (2015), *The History of Indian Medicine Based on the Vedic Literature Satapatha Brahmana* (Kolkata: The Asiatic Society), ISBN: 978-9381574294.
- Sastri, Hrishikesh and Gui, Siva Chandra (1895–1917), *A Descriptive Catalogue of Sanskrit Manuscripts in the Library of Calcutta Sanskrit College* (Calcutta: Baptist Mission Press).
- Sastri, P. P. S. (1933), *A Descriptive Catalogue of the Sanskrit Manuscripts in the Tanjore Maharaja Serfoji's Sarasvati Mahal Library Tanjore: Natya, Sangita, Kamasāstra, Vaidya & Jyotisa, nos. 10650 – 11737* (Srirangam: Sri Vani Vilas Press), [ark:/13960/t3nw8bc12](https://nopr.sri-ceeres.in/handle/123456789/13960/t3nw8bc12).
- Śāstrī, Vardhamāna Pārśvanātha (1940) (ed.), *उग्रादित्याचार्यकृत कल्याणकारक (राष्ट्रभाषानुवादसहित) = The Kalyāṇa-kāraṇam of Ugrādityacharya, Edited with Introduction, Translation, Notes, Indexes and Dictionary* (Sakhārāma Nemacāṇḍa Gramṭhamālā, 129; Solāpura: Setḥa Goviṃḍajī Rāvajī Dośī), [ark:/13960/t2q617g4d](https://nopr.sri-ceeres.in/handle/123456789/13960/t2q617g4d).
- Scott, H. (1817), 'Some Remarks on the Arts of India, with Miscellaneous Observations on Various Subjects', *Journal of Science and the Arts*, 2: 67–72, ill. after 133, [ark:/13960/t9870jt4g](https://nopr.sri-ceeres.in/handle/123456789/13960/t9870jt4g); Breton 1826: 358–363 cites Scott's description of cataract couching.

- Semeka-Pankratov, Elena (1979), 'A Semiotic Approach to the Polysemy of the Symbol *nāga* in Indian Mythology', in Irene Portis Winner and Jean Umiker-Sebeok (eds.), *Semiotics of Culture* (Approaches to Semiotics, 53; The Hague, Paris, NY: Mouton), 237–90. DOI: [10.1515/9783110823134-009](https://doi.org/10.1515/9783110823134-009); The contents of this volume were published simultaneously in *Semiotica* (1/3) 1979 (**seme-1979b**).
- Sena, Gaṅgāprasād et al. (1886–93) (eds.), *सुश्रुतसंहिता...दल्लनाचार्य-कृत-निबन्ध-संग्रह, चक्रपाणिदत्त-कृत-भानुमती-टीका...वङ्गानुवाद...इरेजि प्रतिशब्द* (Calcutta: Manirāma Press); Edition "g" in [HIML](https://himalayaib.org/): IB, 311.
- Sharma, Har Dutt (1939), *Descriptive Catalogue of the Government Collections of Manuscripts Deposited at the Bhandarkar Oriental Research Institute, Vol. XVI, Part I, Vaidyaka* (Descriptive Catalogue of Manuscripts in the Government Manuscripts Library, XVII; Pune: Bhandarkar Oriental Research Institute), [ark:/13960/t0ms6rc70](https://nbn-resolving.org/urn:nbn:in:sharma:13960-t0ms6rc70), accessed 23/10/2019.
- Sharma, Priya Vrat (1972), *Indian Medicine in the Classical Age* (Varanasi: Chowkhamba Sanskrit Series Office).
- (1975), *Āyurved Kā Vaijñānik Itihās* (Jayakṛṣṇadāsa Āyurveda Granthamālā; Vārāṇasī: Caukhambā Orientalia).
- (1982), *Ḍalhaṇa and his Comments on Drugs* (Delhi: Munshiram Manoharlal).
- (1999–2001a), *Suśruta-Saṃhitā, with English Translation of Text and Ḍalhaṇa's Commentary Alongwith (sic) Critical Notes*, 3 vols. (Haridas Ayurveda Series, 9; Varanasi: Chaukhambha Visvabharati).
- (1999–2001b), *Suśruta-Saṃhitā, with English Translation of Text and Ḍalhaṇa's Commentary Alongwith (sic) Critical Notes*, 3 vols. (Haridas Ayurveda Series, 9; Varanasi: Chaukhambha Visvabharati).
- Shastri, R. Shama (1920) (ed.), *बोधायनगृह्यसूत्रम् The Bodhāyana Grihyasutra* (Mysore: University of Mysore), [ark:/13960/t2t492622](https://nbn-resolving.org/urn:nbn:in:shastri:13960-t2t492622).
- Singhal, G. D. et al. (1972–82), *Diagnostic [and Other] Considerations in Ancient Indian Surgery* (Varanasi: Singhal Publications); A translation of the *Suśruta-saṃhitā* in 10v.
- Sircar, Dinesh Chandra (1987), '6. Rākshashkhāli (Sundarban) Plate; Śaka 1118', *Epigraphia Indica* (1953–54), 30: 42–3.

Sleeman, W. H. (1893), *Rambles and Recollections of an Indian Official* (London: Constable), [ark:/13960/t22c4bx7w](http://n2t.net/ark:/13960/t22c4bx7w), accessed 14/03/2018; V. 2 at <http://n2t.net/ark:/13960/t2s52bq7w>.

Smith, Brian K. (1994), *Classifying the Universe: The Ancient Indian Varṇa System and the Origins of Caste* (New York, Oxford: Oxford University Press), ISBN: 0-19-508498-5.

Spink, M. S. and Lewis, G. L. (1973) (eds.), *Albucasis on Surgery and Instruments: A Definitive Edition of the Arabic Text with English Translation and Commentary* (London: Wellcome Institute of the History of Medicine).

Srikantha Murthy, K. R. (2000–2), *Illustrated Suśruta Saṃhitā: Text, English Translation, Notes, Appendices and Index* (Jaikrishnadas Ayurveda Series, 102; 1st edn., Varanasi: Chaukhambha Orientalia).

Steingass, F. (1930), *A Comprehensive Persian-English Dictionary Including the Arabic Words and Phrases to Be Met with in Persian Literature* (London: Kegan Paul, Trench, Trubner).

Strauss, Bettina (1934), ‘Das Giftbuch des Šānāq: eine Literaturgeschichtliche Untersuchung’, *Quellen und Studien zur Geschichte der Naturwissenschaften und der Medizin*, 4/2: [89]–[152] followed by Arabic text.

Suvedī, K. S. and Tivārī, N. (2000) (eds.), *Sauśrutanighaṇṭuḥ: granthādaḥ viśṛṭṭaḥ granthavaiśiṣṭyaprakāśakenopodghātena avasāne ca dravyāṇāṃ anekabhāṣāṇāṃ āvalī- paryāyasaṅgrahābhyaṃ samalāṅkṛtaḥ Suśrutasaṃhitāyāṃ prayuktāṇāṃ auśadhadravyāṇāṃ paryāya-guṇakarmavarṇātmako pūrvagaranthaḥ* (Belajhuṇḍī, Ḍāñi: Mahendrasaṃskṛtaviśvavidyālayaḥ).

Tavernier, Jean-Baptiste (1684), *Collections of Travels through Turkey (sic), into Persia, and the East-Indies* (London: M. Pitt).

The Unicode Consortium (1991–2020), ‘The Unicode Standard 13.0, NewaRange: 11400–1147F’, [URL](http://www.unicode.org), accessed 20/07/2021.

Thorburn, S. S. (1876), *Bannu; or Our Afghan Frontier* (London: Trübner & Co.), [URL](http://www.indianbooks.org), accessed 10/09/2019; Reprinted Lahore: Niaz Ahmad, 1978.

UNESCO (2013), ‘International Memory of the World Register Susruta Samhita (Nepal)’, UNESCO, [URL](http://www.unesco.org), accessed 11/09/2019.

Unschuld, Paul Ulrich (1984), *Medicine in China: A History of Ideas* (Berkeley: University of California Press), ISBN: 0520050231.

- Valiathan, M. S. (2007), *The Legacy of Suśruta* (Hyderabad, Chennai, etc.: Orient Longman).
- Velankar, H. D (1925–30), *Descriptive Catalogue of the Sanskr̥ta and Prākṛta Manuscripts in the Library of the Bombay Branch of the Royal Asiatic Society* (Bombay: Royal Asiatic Society, Bombay), [ark:/13960/t53g00h0n](https://nbn-resolving.org/urn:nbn:in:brbl:velankar); Biswas #0115.
- Watt, George (1889–96), *A Dictionary of the Economic Products of India* (Calcutta: Dept. Revenue and Agriculture, Government of India), [URL](#), accessed 28/04/2021.
- (1908), *The Commercial Products of India, Being an Abridgement of “the Dictionary of the Economic Products of India”* (London: John Murray), [ark:/13960/t9t14xh3x](https://nbn-resolving.org/urn:nbn:in:brbl:watt).
- Whitney, William Dwight (1885), *The Roots, Verb-forms, and Primary Derivatives of the Sanskrit Language. A Supplement to his Sanskrit Grammar* (Leipzig: Breitkopf and Härtel), [ark:/13960/t3qv3p906](https://nbn-resolving.org/urn:nbn:in:brbl:whitney).
- Wilson, H. H. (1823), ‘On the Medical and Surgical Sciences of the Hindus’, *The Oriental Magazine and Calcutta Review*, 1: 207–12, 349–56, [URL](#).
- Wren, R. C. (1956), *Potter’s New Cyclopaedia of Botanical Drugs and Preparations*, ed. R. W. Wren (Rustington, Sussex: Health Science Press), [ark:/13960/t14n65c9g](https://nbn-resolving.org/urn:nbn:in:brbl:wren).
- Wujastyk, Dagmar (2012), *Well-mannered Medicine: Medical Ethics and Etiquette in Classical Ayurveda* (New York: Oxford University Press). DOI: 10.1093/acprof:oso/9780199856268.001.0001.
- (2019), ‘Iron Tonics: Tracing the Development from Classical to Iatrochemical Formulations in Ayurveda’, *HIMALAYA, the Journal of the Association for Nepal and Himalayan Studies*, 39/1, ISSN: 2471-3716, [URL](#), accessed 23/07/2019.
- Wujastyk, Dominik (1993), ‘Indian Medicine’, in W. F. Bynum and Roy Porter (eds.), *Companion Encyclopedia of the History of Medicine*, i (London: Routledge), chap. 33, 755–78, ISBN: 0-415-04771-4, [URL](#).
- (2002), ‘Cannabis in Traditional Indian Herbal Medicine’, in Ana Salema (ed.), *Āyurveda at the Crossroads of Care and Cure. Proceedings of the Indo-European Seminar on Ayurveda held at Arrábida, Portugal, in November 2001* (Lisbon: Centro de História de Além-Mar, Universidade Nova de Lisboa), 45–73, ISBN: 972-98672-5-9, [URL](#), accessed 27/05/2019.

- Wujastyk, Dominik (2003), *The Roots of Ayurveda: Selections from Sanskrit Medical Writings* (Penguin Classics; 3rd edn., London, New York, etc.: Penguin Group), ISBN: 0-140-44824-1.
- (2004), ‘Agni and Soma: A Universal Classification’, *Studia Asiatica: International Journal for Asian Studies*, IV–V, ed. Eugen Ciurtin: 347–70, ISSN: 1582–9111, [URL](#).
- (2013), ‘New Manuscript Evidence for the Textual and Cultural History of Early Classical Indian Medicine’, in *Medical Texts and Manuscripts in Indian Cultural History*, ed. Dominik Wujastyk, Anthony Cerulli, and Karin Preisendanz (New Delhi: Manohar), 141–57, [URL](#).
- (2021), ‘MS London BL H. T. Colebrooke 908’, [URL](#).
- Wujastyk, Dominik, SKSEC Team, and Kessler, O. (2020), ‘Suśrutasamhitā’, PanditProject (6 Oct.), [URL](#), accessed 14/09/2022.
- Yano, Michio (1986), ‘A Comparative Study of *Sūtrasthānas*: Caraka, Suśruta, and Vāgbhaṭa’, in Teizo Ogawa (ed.), *History of Traditional Medicine: Proceedings of the 1st and 2nd International Symposia on the Comparative History of Medicine—East and West* (Osaka: Division of Medical History, the Taniguchi Foundation), 325–44.
- Zimmermann, F. (1983), ‘Suśrutasamhita. Essay review.’, *Bulletin of the History of Medicine*, 57/2: 291–3, ISSN: 00075140, [URL](#).
- Zimmermann, Francis (1999), *The Jungle and the Aroma of Meats* (2nd edn., Delhi: Motilal Banarsidass), ISBN: 8120816188.
- Zysk, Kenneth G. (1984), ‘An Annotated Bibliography of Translations into Western Languages of Principle Sanskrit Medical Treatises’, *Clio Medica*, 19/3–4: 281–91.
- (1985), *Religious Healing in the Veda: With Translations and Annotations of Medical Hymns from the Rgveda and the Atharvaveda and Renderings from the Corresponding Ritual Texts* (Transactions of the American Philosophical Society; Philadelphia: American Philosophical Society), ISBN: 0871697572.
- (1986), ‘The Evolution of Anatomical Knowledge in Ancient India with Special Reference to Cross-cultural Influences’, *Journal of the American Oriental Society*, 106: 687–705. DOI: [10.2307/603532](#).

Zysk, Kenneth G. (2000), *Asceticism and Healing in Ancient India: Medicine in the Buddhist Monastery* (Indian Medical Tradition; 2nd edn., Delhi: Motilal Banarsidass); First published 1991. Reprint of 1998 edition.

Glossary

<i>adhiṣṭhāna</i>	elephant/snake	<i>nāga</i>
- base, foundation:	- <i>nāga</i> : 53	- elephant/snake: 53
52	fart	nipping with the mouth
- carriers: 52	- <i>avaśardhita</i> : 52	- <i>mukhasaṃdaṃṣā</i> :
<i>avaśardhita</i>		52
- fart: 52	<i>kalpa</i>	rule
base, foundation	- rule: 52	- <i>kalpa</i> : 52
- <i>adhiṣṭhāna</i> : 52	loose stool	<i>śūka</i>
bristles	- <i>viḍbheda</i> : 53	- bristles: 52
- <i>śūka</i> : 52	<i>mukhasaṃdaṃṣā</i>	<i>viḍbheda</i>
carriers	- nipping with the	- loose stool: 53
- <i>adhiṣṭhāna</i> : 52	mouth: 52	

Glossary of Medical Substances

axlewood dhava. <i>Anogeissus latifolia</i> (Roxb. ex DC.) Wall. ex Guill & Perr. See AVS 1.163 f., GIMP : 20, 53	ADPS 71, NK #2297., 51
beautyberry <i>śyāmā</i> → <i>priyaṅgu</i> . <i>Callicarpa macrophylla</i> , Vahl. See AVS 1.334, NK #420., 51	country sarsaparilla <i>anantā</i> . <i>Hemidesmus indicus</i> , (L.) R. Br. See ADPS 434, AVS 3.141–5, NK #1210., 53
beggarweed <i>aṃśumatī</i> . <i>Desmodium gangeticum</i> (L.) DC (Dymock 1.428, GJM 602, NK #1192; ADPS 382, 414 and AVS 2.319, 4.366 are confusing), 51	crape jasmine <i>tagara</i> . <i>Tabernaemontana divaricata</i> (L.) R.Br. ex Roem. & Schultes. See GJM 557, AVS 5.232., 51
cardamom <i>elā</i> . <i>Elettaria cardamomum</i> , Maton. See AVS 2.360, NK #924, Potter 66., 51	crimson trumpet-flower tree <i>pāṭalā</i> . <i>Stereospermum chelonides</i> , (L. f.) A. DC. See GJM 573, AVS 5.192ff., ADPS 362f., AVS 3.1848f., IGP 1120, Dymock 3.20ff., 53
cassia cinnamon <i>patra</i> . <i>Cinnamomum tamala</i> , (Buch.-Ham.) Nees. See AVS 2.84, NK #., 51	deodar <i>bhadradāru</i> . <i>Cedrus deodara</i> , (Roxb. ex D.Don) G. Don. See AVS 41, NK #516., 51
cherry <i>elavāluka</i> . <i>Prunus cerasus</i> , L.?. See BVDB 58, NK #2037, GVDB : 58., 51	embelia <i>viḍaṅga</i> . <i>Embelia ribes</i> , Burm. f. See ADPS 507, AVS 2.368, NK #929, Potter 113., 51
cobra's saffron <i>nāgapuṣpa</i> . = <i>nāgakeśara</i> . <i>Mesua ferrea</i> , L. See NK #1595, GVDB : 220, 51	false daisy (?) (<i>su</i>) <i>bhaṅgura</i> = <i>bhṛṅga</i> ? <i>Eclipta prostrata</i> (L.) L. See GVDB : 288., 40
corky coral tree <i>pāribhadra</i> . <i>Erythrina suberosa</i> Roxb. See GVDB 245, 53	garjan oil tree <i>aśvakarṇa</i> . <i>Dipterocarpus turbinatus</i> Gaertn. f. See GVDB : 28, GIMP : 100, 53
costus <i>kuṣṭha</i> . <i>Saussurea costus</i> , Clarke. See NK #2239., 51	gold hema. gold., 51
country mallow <i>balā</i> . <i>Sida cordifolia</i> , L. See	golden shower tree <i>rājadruma</i> = <i>āragvadha</i> . <i>Cassia fistula</i> L. See GVDB 37, 53
	hogweed <i>punarnavā</i> . <i>Boerhaavia diffusa</i> , L. See ADPS 387, AVS 1.281, NK #363., 50

- Indian barberry *dāruharidrā*. *Berberis aristata*, DC. See Dymock 1.65, [NK #685](#), [GJM 562](#), [IGP 141.](#), [51](#)
- Indian madder *mañjiṣṭhā*. *Rubia cordifolia*, L. See [IGP](#), [GIMP 215](#), [GVDB: 289.](#), [51](#)
- Indian sarsaparilla *sārivā. anantā* (*Hemidesmus indicus*, (L.) R. Br. [ADPS 434](#), [AVS 3.141–5](#), [NK #1210](#)) and black creeper (*pālinḍi*. *Ichnocarpus frutescens*, (L.) R.Br. or *Cryptolepis buechanani*, Roemer & Schultes [AVS 3.141](#), [3.145](#), [3.203](#), [NK #1283](#), [#1210](#), [ADPS 434](#)), [51](#)
- jequirity *guñjā*. *Abrus precatorius*, L. See [AVS 1.10](#), [NK #6](#), Potter 168., [40](#)
- liquorice (?) *klītaka*. *Glycyrrhiza glabra*, L.? [GVDB: 123–124](#) discuss the many difficulties in identifying this plant, [40](#)
- liquorice madhuka. *Glycyrrhiza glabra*, L. See [AVS 3.84](#), [NK #1136.](#), [51](#)
- lodh tree *lodhra*. *Symplocos racemosa*, Roxb. See [GJM 597](#), [ADPS 279f.](#), [51](#)
- long pepper *pippalī*. *Piper longum*, L. See [ADPS 374](#), [NK #1928.](#), [51](#)
- natron *suvarcikā*. Sodium carbonate. [NK 2](#), p. 101. *Ḍalhaṇa* identifies *suvarcikā* with *svarjikṣāra* 4.8.50 ([Su 1938: 441](#)), [51](#)
- peas hareṇu = *satīna*. *Pisum sativum*, L. Singh and Chuneekar ([GVDB: 419–420](#), [467–468](#)) notes that two plants are usually meant under this name, but there is no agreement on the identity of the second, [50](#), [51](#)
- poison berry *bṛhatī*. *Solanum violaceum*, Ortega. See [ADPS 100](#), [NK #2329](#), [AVS 5.151.](#), [51](#)
- pondweed *paripelavā*. Normally a neuter noun. Singh and Chuneekar ([GVDB: 238](#), [264–265](#), [409](#)) argued that *plava* and *śaivāla* are the same thing, and may be either *Zannichellia palustris*, L., or *Potamogeton pectinatus*, L., [51](#)
- red chalk *gairika.*, [51](#)
- rosha grass *dhyāmaka*. *Cymbopogon martinii* (Roxb.) Wats. See [AVS 2.285](#), [NK #177.](#), [51](#)
- sandalwood *candana*. *Santalum album*, L. See [ADPS 111](#), [NK #2217.](#), [51](#)
- scented pavonia *bālaka*. *Pavonia odorata*, Willd. See [ADPS 498](#), [NK #1822.](#), [51](#)
- small-flowered crape myrtle *sidhraka*. *Lagerstroemia parviflora* Roxb. See [GVDB: 432](#), [53](#)
- spikenard *māmsī*. *Nardostachys grandiflora*, DC. See [NK #1691.](#), [51](#)
- sugar *sitā*, sugar. *Ḍalhaṇa* makes this equation at 1.37.25 ([Su 1938: 162](#)), [51](#)
- sweet-scented oleander *aśvamāraka*. *Nerium oleander*, L. See [ADPS 223](#), [NK #1709.](#), [40](#)
- three heating spices *śuṇṭhī* (Dried ginger) *Zingiber officinale*, Roscoe. [ADPS 50](#), [NK #2658](#), [AVS 5.435](#), [IGP 1232](#), *pippalī* (long pepper) *Piper longum*, L. [ADPS 374](#), [NK #1928](#), and *marica* (black pepper) *Piper nigrum*, L. [ADPS 294](#), [NK #1929.](#), [50](#)
- turmeric *rajanī*. *Curcuma longa*, L. [ADPS 169](#), [AVS 2.259](#), [NK #750.](#), [51](#)
- water-lily *utpala*. *Nymphaea stellata*, Willd. See [GJM 528](#), [IGP 790](#); Dutt 110, [NK #1726.](#), [51](#)
- weaver's beam tree *muṣkaka*. *Schrebera swietenoides*, Roxb. See [AVS 5.88](#), Lord, [NK #2246.](#), [53](#)
- white cutch tree *somavalka*. *Acacia polyacantha*, Willd. See [AVS 1.30](#), [IGP 7](#), [GJM 602](#), [AVS 2.935](#); *pace* [NK #1038.](#), [53](#)
- yellow-berried nightshade *kṣudrā*. *Solanum virginianum*, L. See [ADPS 100](#), [NK #2329](#), [AVS 5.164.](#), [51](#)

Appendix

On digital critical editions

- Price, Kenneth M. (2013), ‘Electronic Scholarly Editions’, in Ray Siemens and Susan Schreibman (eds.), *A Companion to Digital Literary Studies* (Chichester, UK: John Wiley & Sons, Ltd), 434–50. DOI: [10.1002/9781405177504.ch24](https://doi.org/10.1002/9781405177504.ch24), URL, accessed 04/07/2021.

A survey of the field in 2013, with a focus on the presentation of electronic texts rather than on critical editing as such.

- Moureau, Sébastien. (2015), ‘The Apparatus Criticus’, in Alessandro Bausi et al. (eds.), *Comparative Oriental Manuscript Studies: An Introduction* (Hamburg: Tredition), 348–52, ISBN: 978-3-7323-1768-4, URL, accessed 04/07/2021.

Useful discussion about the *apparatus criticus* in general, and an evaluation of the plus and minus points of positive and negative apparatuses.

- Burghart, Marjorie (2016), ‘The TEI Critical Apparatus Toolbox: Empowering Textual Scholars through Display, Control, and Comparison Features’, *Journal of the Text Encoding Initiative*, 10/Issue 10. DOI: [10.4000/jtei.1520](https://doi.org/10.4000/jtei.1520), URL, accessed 12/12/2017.

Discussion of a software tool, including the handling of positive and negative apparatus. Makes the assumption that online displays are notational variants only.

- Burghart, Marjorie (2017), ‘Textual Variants’, in Marjorie Burghart et al. (eds.), *Digital Editing of Medieval Texts: A Textbook* (DEMM), URL, accessed 04/07/2021.

Discussion of how to express various kinds of apparatus in TEI.

- Bausi, Alessandro et al. (2015), *Comparative Oriental Manuscript Studies. An Introduction* (Hamburg: Tredition). DOI: [10.5281/ZENODO.46784](https://doi.org/10.5281/ZENODO.46784).

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

Todo list

■ añjana	25
■ Cf. Arthaśāstra 1.21.8.	31
■ I'm still unhappy about this verse.	34
■ Mention this in the introduction as an example of the scribe knowing the vulgate.	34
■ fn about sadyas+	34
■ Bear's bile instead of deer's bile.	35
■ punarṇṇavā in the N & K MSS	36
■ śrita for śṛta	36
■ explain more	36
■ Medical difference from Sharma.	36
■ example where the vulgate clarifies that these should be used separately; appears to be a gloss inserted into the vulgate text.	36
■ The two uses of prāpta are hard to translate. prāptāḥ → kṣipraṃ is an example of the vulgate banalizing the Sanskrit text to make sense of a difficult passage.	37
■ √ vyadh not √ vedh (also elsewhere and for the ears), causative optative.	37
■ opposite of the vulgate Same as 1.8.89 (As 1980: 79).	37
■ Medical difference.	38
■ Expected (CIPP): Croton tiglium, L. = Naepala, Jayapala, kanakaphala, titteriphala (NL #720); Calotropis spp.; Citrullus colocynthus (colocynth); Ricinus communis (castor);	40
■ Note about Gayī's edition.	40
■ -> ativiṣa	45
■ Look up the ca. reference.	45
■ Come back to the issue of "kalpa". Look up passages in the Kośa.	52
■ where is cutting with a knife related to removing bile or phlegm.	54
■ maṣī burned charcoal. Find refs.	54
■ find ref.	60
■ Check out these refs.	60
■ meaning of kalpa	60
■ or a dual?	65

