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Piṇḍaśāstra, an Āyurvedic Khotanese Text

*Critical Edition, Translation, Commentary, Glossary,
and Study of the Sources*

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XXXV Ciclo

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Books

KBT	Bailey 1951
KT 1-7	Bailey 1945-1985
MW	Monier-Williams 1899
SGS	Emmerick 1968b
Studies 1-3	Emmerick and Skjærvø 1982-1997

Khotanese and Sanskrit Texts

A.h.	Aṣṭāṅgahr̥dayasaṃhitā
A.s.	Aṣṭāṅgasamgraha
Ca.	Carakasamhitā
Ci.	Cikitsāsthāna
Hā.	Hārītasamhitā
JP	Jivakapustaka
JS	Jātakastava
N	Nebenstücke
Ni.	Nidānasthāna
PiŚ	Piṇḍaśāstra
Si	Siddhasāra
Su.	Suśrutasamhitā
Sū.	Sūtrasthāna
Sum	Sumukhasūtra
U.	Uttaratantra
Vi.	Vimānasthāna
Vim.	Vimalakīrti

Other Abbreviations

1/2/3	first/second/third person
abl.	ablative
acc.	accusative
act.	active
adj.	adjective
adv.	adverb
Av.	Avestan
card. num.	cardinal number
Chin.	Chinese
conj.	conjunction
dat.	dative
encl.	enclitic
f.	feminine
Gāndh.	Gāndhārī
gen.	genitive
ind.	indicative
inst.	instrumental
intr.	intransitive
Ir.	Iranian
Kh.	Khotanese
LKh.	Late Khotanese
LW	loanword
m.	masculine
mid.	middle
ms	manuscript
n.	noun
nom.	nominative

nt.	neuter
OInd.	Old Indian
OIr.	Old Iranian
OKh.	Old Khotanese
opt.	optative
part. nec.	participle of necessity
perf.	perfect
pers. pron.	personal pronoun
pl.	plural
postp.	postposition
pres.	present
pres. ind.	present indicative
sg.	singular
Skt.	Sanskrit
Tib.	Tibetan
tr.	transitive
vb.	verb

Authors of plant names

Ait.	Aiton, William (1731-1793)
A. Juss	Jussieu, Adrien Henri Laurent de (1797-1853)
All.	Allioni, Carlo (1728-1804)
Batsch.	Batsch, August Johann Georg Karl (1761-1802)
Blume	Blume, Carl(Karl) Ludwig von (1796-1862)
Burm.	Burman, Nicolaas Laurens (Nicolaus Laurent) (1734-1793)
Clar.	Clarke, Charles Baron (1832-1906)
Dalz.	Dalzell, Nicol Alexander (1817-1877)
Dunal	Dunal, Michel Félix (1789-1856)
Don	Don, David (1799-1841)
Eng.	Engler, Heinrich Gustav Adolf (1844-1930)

Gmel.	Gmelin, Johann Friedrich (1748-1804)
Hook.	Hooker, Joseph Dalton (1817-1911)
Jacq.	Jacquin, Nicolaus Joseph von (1727-1817)
Kurz.	Kurz, Wilhelm Sulpiz (1834-1878)
Lind.	Lindley, John (1799-1865)
Linn.	Linnaeus, Carl (1707-1778)
Lodd.	Loddiges, George (1784-1846)
Loisel.	Loiseleur-Deslongchamps, Jean Louis August(e) (1774-1849)
Müll.Arg.	Müller Argoviensis, Johannes (Jean) (1828-1896)
Retz.	Retzius, Anders Jahan (1742-1821)
Roxb.	Roxburgh, William (1751-1815)
Schrad.	Schrader, Heinrich Adolph (1767-1836)
Vahl	Vahl, Martin (Henrichsen) (1749-1804)
Wendl.	Wendland, Johann Christoph (1755-1828)
Wight	Wight, Robert (1796-1872)
Zoll.	Zollinger, Heinrich (1818-1859)

INTRODUCTION

1. The Kingdom of Khotan and the Khotanese language

1.1 Historical background

The ancient Iranian kingdom of Khotan was located on the southern branch of the Silk Road in the present-day Xinjiang Uighur Autonomous Region of China. Khotan was an early centre of Buddhist studies of the Mahāyāna tradition during all the first millennium C.E. and played an important role in developing the knowledge received from India and transmitting it eastwards. For many centuries different cultures met and mingled in this small kingdom at the edge of the Taklamakan desert and their influence was of great importance in defining the art, literature, and traditions of the people of Khotan.² Reflecting on his initial exploration of Khotan's ruins, Sir Marc Aurel Stein (1862-1943) eloquently expressed, 'this bygone culture rested mainly on Indian foundations. But there has also come to light unmistakable evidence of other powerful influences, both from the West and from China, which helped to shape its growth and to invest it with an individual character and fascination of its own'.³

Since the majority of the local documents written in Khotanese language is datable between the eighth to the tenth century, most of the historical information about the early period comes from Chinese and Tibetan accounts.⁴ Four sources tell us about the foundation of this kingdom, which allegedly took place during the reign of king Aśoka of the Maurya dynasty (third century B.C.E.).⁵ Known by the Indian as *Gostana* and by the Chinese as 于闐 *Yútián*, the indigenous name of Khotan and Khotanese was actually *hvatana-* (LKh. *hvaṃna-*, *hvana-*). Thus, in the fifth century *Book of Zambasta* we find *hvatāna-kṣīra* 'the Khotanese realm' and *hvatānā rre* 'the Khotanese king' (Z 5.114), and *hvatanau* 'in the Khotanese (language)' (Z 23.2).⁶

² See on Khotanese art Lo Muzio 2022.

³ Stein 1904: xvi.

⁴ Kumamoto 2022.

⁵ Emmerick 1992a: 1.

⁶ Emmerick 1968a: 88.

The first historical references on this small kingdom are found in Chinese dynastic annals from the early Han to the Tang dynasties and begin from the 140 B.C.E.⁷ However, the earliest evidence of the Iranian origin of Khotanese comes from the Kharoṣṭhī documents found at the sites around Niya. In one of these documents the king of Khotan bears the Iranian title *hinajha* ‘general’, which shows that ‘there must already at that time have been a long-established connection between the Iranian inhabitants of Khotan and the royal power’.⁸

The history of the culture that once flourished in Khotan is faithfully reflected in the biographies of Chinese Buddhist monks, who during their travelling to the Western regions and to India visited also this area. Among them, the pilgrim Fǎxiǎn 法顯 provides a fascinating description of the city and its people that hosted him for three months around the 400 C.E. In the narration of a religious procession, he puts the beauty of Khotan into words:

‘The country is prosperous and happy; its people are well-to-do; they have all received the Faith, and find amusement in religious music. The priests number several tens of thousands, most of them belonging to the Greater Vehicle (...) Before the door of every house they build small pagodas, the smallest of which would be about twenty feet in height [...]. In this country there are fourteen large monasteries, without counting the smaller ones’⁹

Buddhist monasteries, ceremonies, and religious texts are the expression of the strong Indian influence in Khotan. On the other hands, documents and letters give us a picture of daily life under the Chinese, Tibetan, and Western Turks, who rule over the country until the tenth century and its conquest by the Islamised Qarakhanids in 1005.¹⁰

1.2 The Khotanese manuscripts

During the expeditions in the Central Asia at the end of the nineteenth and the beginning of the twentieth century, numerous manuscripts were brought back to light. Among them, Khotanese documents were found in the area of the kingdom of Khotan and in the ‘Caves of Thousand

⁷ See on the early period of Khotan Kumamoto 2009a and 2022.

⁸ Emmerick 1992a: 3.

⁹ Translation by Giles 1923: 4-5.

¹⁰ See Skjærvø 2004b: 34-43. On Khotan during the Islamic period see Schluessel 2022.

Buddhas' in Dunhuang (Gansu province). The manuscripts recovered, which are now preserved in different libraries, are of two types. Of the first kind are manuscripts in *poṭhi* format, which consist of bundles of large oblong paper leaves imitating the Indian palm leaf format. To the second type belong the Chinese scrolls made from sheets of paper, glued together with extreme precision. Thanks to palaeographic studies, it is now possible to establish approximate dates for those manuscripts that did not contain dating information (e.g. literary texts). Accordingly, researchers were able to distinguish between older and younger manuscripts. The former were recovered from the region of Khotan and are approximately datable between the second half of the fifth century to the first half of the ninth century. The latter come instead from Dunhuang and date back to the late ninth to all the tenth century.¹¹

1.3 Stages of the Khotanese language

Among the literary finds mostly in Chinese, Sanskrit, and Tibetan from the area of Khotan, hundreds of documents written in a 'non-Sanskrit' language were recovered. To quote once again Stein's words in 1904:

'All the most interest attaches to the numerous documents and fragmentary texts from the same site which show an otherwise unknown language, manifestly non-Sanskrit yet written in Indian Brahmi characters; for it appears very probable that in them we have records of the tongue actually spoken at that period by the indigenous population of Khotan'¹²

In fact, the nature of this language was not immediately clear. A first study on Khotanese started in the 1897 with A. F. Rudolf Hoernle, followed by Sten Konow, and Ernst Leumann. Their contribution on the decipherment and the identification of the language have been significant.

¹¹ See also Emmerick 1992a: 4-6, Maggi 2009b: 333-334, Skjærvø 2002: lxviii-lxix, and Zhang and Rong 2008.

¹² Stein 1904: xviii-xix.

Linguistically, Khotanese is a Middle Iranian language and, together with Tumšqese, a Saka dialect.¹³ The different varieties of Khotanese are traditionally categorised into two different stages: Old and Late Khotanese.¹⁴ The manuscripts recovered from the region of Khotan contain both Old Khotanese and Late Khotanese texts. On the other hand, Dunhuang manuscripts are written only in later forms of Late Khotanese.¹⁵ Particularly remarkable are the several stages of linguistic evolution observed within the Khotanese texts. For instance, over the time Old Khotanese morphology underwent an extreme simplification due to the drastic weakening of the vowels system. This phonological change caused in Late Khotanese the loss of diphthongs, final vowels, and the merger of different vowels into a single one.¹⁶ As a consequence, the interpretation of Late Khotanese texts is often problematic.

1.4 Script

The Khotanese texts are written in varieties of Central Asian Brāhmī, a development and adaptation of the Indian Brāhmī script. Although there are several different stages, two main varieties are distinguished and conventionally termed ‘formal’ and ‘cursive’. The first one is found mainly in Buddhist texts and is characterised for being more elaborate and elegant. An extensive study on this script was provided by M. Leumann (1934) and L. Sander (1984). The ‘cursive’ *ductus* is further divided into ‘formal’, which is usually more accurate, and ‘regular’, less careful and written quickly.¹⁷

¹³ Emmerick 1989: 204-205. See also Schmitt 2000: 58.

¹⁴ The existence of a third stage is posited by Skjærvø 2002: lxx-lxxi on the basis of linguistic and textual criteria. A first phase is identified in the Old Khotanese period, which corresponds to the fifth sixth century; a second one in the Middle Khotanese period, seventh to eighth century; finally, the Old Khotanese period, around the ninth and tenth century. See also Skjærvø’s recent study on Khotanese language 2022: 128-130.

¹⁵ Maggi 2009b: 333.

¹⁶ See also Skjærvø 2002: lxxi, 2004b: lxxii-lxxiv, Skjærvø 2022: 122-128, Emmerick 1989, and Schmitt 2000: 60.

¹⁷ See also Maggi 2021, Skjærvø 2002: lxxi-lxxii and 2022: 121-122, Sander 1986: 159-192 and 2005: 133-144.

1.5 The Khotanese literature: medical texts

As previously mentioned, Khotan was an important centre of Buddhist studies. Accordingly, the vast majority of Khotanese texts are from the Mahāyāna tradition, either translations or original compositions.¹⁸ Among the original religious compendia, some interesting titles are *The Book of Zambasta* [Z],¹⁹ an Old Khotanese poem from ca. the fifth century on the teachings of Mahāyāna Buddhism, or the *Book of Vimalakīrti* [Vim], a Late Khotanese metrical text on Mahāyānist doctrines.²⁰ However, religious texts are not the only one to survive. Non-doctrinal literary texts are also extant and include lyrical and burlesque poetry, geographical texts, panegyrics, and medical texts.

The field of Khotanese medical literature holds significant importance, yet its investigation remains insufficient. Its development was profoundly shaped by the influence of Indian medicine. Specifically, Khotanese medical texts belong to the Indian Āyurvedic tradition, which was introduced to the region of Khotan concomitant with the spread of Buddhism. In the scope of this study, it is pertinent to delineate the salient characteristics of two prominent Khotanese medical texts, namely the *Siddhasāra* [Si] and the *Jīvakaṣṭaka* [JP], alongside a concise and unidentified medical text found within the page of one of the *Siddhasāra* manuscripts.

1.5.1 Siddhasāra

The Sanskrit *Siddhasāra* by Ravigupta has been dated around 650 C.E., about the same period of Vāgbhaṭa's treatises (ca. 600) and the *Mādhavanidāna* (ca. 700). This text was held in high regard in Central Asia and it was translated in various languages such as Tibetan, Uighur, and Khotanese.²¹ Parallel passages with the famous treatises of Caraka and Suśruta have been

¹⁸ See on Khotanese literature Emmerick 1992a, Maggi 2009b, 2015: 860-870, and 2022: 133-143.

¹⁹ For the edition and translation of the text see Emmerick 1968. Cf. Maggi 2009a: 348-357 and *Annotation on the Book of Zambasta* vols. I-VIII (2009-2020).

²⁰ See Maggi 2009b: 359-360.

²¹ See Emmerick 1980a for a critical edition of the Sanskrit original and Emmerick 1982 for a critical edition and translation of the Tibetan version; see also Emmerick 1992a: 43-45, Meulenbeld 1999-2002, 2A: 146-148, 2B: 166-170, Maggi 2009b, and Zieme 2007: 413-416. Bailey edited the Khotanese text in *KT* 1.2-104 (manuscript Ch. ii.002 = ms Ch) and *KT* 5.315-324 (manuscript P 2892 = ms P).

identified by Emmerick in the *Siddhasāra*, which seems to have recollected the Indian Āyurvedic material of that time in 31 chapters written in verse. The Tibetan prose translation is fully preserved and, compared to the Sanskrit, is characterised by a more clear and less synthetic text. The Khotanese version is preserved within two manuscripts recovered from the Caves of Thousand Buddhas near Dunhuang, specifically the Ch. ii.002 and the Pelliot chinois 2892, the latter being a variant of fols. 5-14, both dating back to the tenth century. This is preceded by an introduction in verse where the translator explains the reason behind the translation,²² which is based mainly on the Tibetan one. Unlike the Tibetan text, some chapters of the Khotanese version have not survived. However, a large part is still extant and its contribution to the study of the Khotanese medical vocabulary is extremely valuable.

1.5.2 *Jīvakapustaka*

The document referred to as the *Jīvakapustaka* is a Sanskrit/Late Khotanese bilingual treatise preserved in the incomplete manuscript Ch. ii 003, currently stored in the British Library. The Khotanese text, dating back to the tenth century, was edited and translated by S. Konow in 1941. Furthermore, it was independently edited by H. W. Bailey in *KT* 1.136-196.²³ The conventional title *Jīvakapustaka*, signifying ‘The book of Jīvaka’, was assigned by Harold W. Bailey. This attribution originates from the fact that the initial chapter reveals the book's self-identification as the teachings of Buddha imparted to the physician Jīvaka. The text shows an alternating composition of Sanskrit, which is extremely corrupt, alternated with Khotanese paragraphs and sentences. Additionally, the text's organization follows a categorization based on various types of preparations, including an antidote, medicaments combined with clarified butter or sesame oil, and those formulated in powder form. The *Jīvakapustaka* shows some similarities with the text that forms the subject of the present study, particularly in the use of certain ingredients and the general organisation of the material.

²² See Bailey 1962 and Emmerick 1983a.

²³ See Emmerick 1992a: 42-43, Maggi 2008b, 2009b: 350-351, 414-416 and 2022b, and Meulenbeld 1999-2002, 2A: 126, 2B: 144. See also the edition of the reconstructed Sanskrit text with modern Chinese translation by Chen 2005. A facsimile edition of the Khotanese *Siddhasāra* and *Jīvakapustaka* was published by Bailey 1938: 1-23, 25-141.

1.5.3 Folio 100 of ms Ch. ii002 or *Piṇḍasaptaka*

The folio 100 of the Ch. ii.002, the *poṭhi* manuscript containing the Late Khotanese *Siddhasāra*, belongs to an unidentified medical text. The manuscript was recovered during the second expedition of Aurel Stein (1906-1908)²⁴ in Dunhuang. The manuscript presumably dates back to the tenth century and is now preserved at the British Library under the shelf number IOL Khot 123/1.²⁵ The brief but well-preserved Late Khotanese medical text was first published in transcription by Harold W. Bailey in KT 1.34. Besides few passages and words in Bailey's *Dictionary*, the text has never been fully interpreted. The text contains Āyurvedic prescriptions, including six medicated pastes or poultices (Skt. *piṇḍa(ka)-*) and one decoction (Skt. *kaṣāya-*) against the diseases of the abdominal area, strong pains in the bones and, possibly, skin irritations (sores). I am currently working on a critical edition and translation of this concise text, which interestingly shares many characteristics, such as medical terminology, phraseology, and other pertinent features, with those found in the *Piṇḍasāstra*. Due to the absence of an original title, I propose adopting the conventional denomination of *Piṇḍasaptaka* [PiSa], on the grounds of the Sanskrit words *piṇḍa(ka)-* signifying 'poultice' and *saptaka-* 'collection of seven'.²⁶ The designation reflects the content of this brief medical text, which encompass seven distinct preparation.

²⁴ Skjærvø 2002: xlvi.

²⁵ A facsimile edition was published by Bailey 1938: 24.

²⁶ MW 625, s.v. *piṇḍaka* and 1150, s.v. *saptaka*.

2. Indian medicine

2.1 Tracing the ancient roots of healing: Insights from Vedic texts and the Atharvaveda

Delineating the origin and the evolution of Indian medicine is an arduous task. For a long time, different traditions coexisted and often shared similar beliefs and practices. However, not all of them have survived, making impossible to follow a straight line in tracing the history of Indian medicine. Nevertheless, it is possible to identify elements concerning illness and healing since the earliest texts. "Starting with the earliest historical records of urbanization in the Indus Valley within Indian civilization, this chapter will provide a brief overview of the transition from basic concepts of medicine closely linked to magic, to the development of more organized healing systems.

The emergence of civilization in the South Asian peninsula can be traced back to the fourth millennium B.C.E., as evidenced by the first archaeological findings of the 'Indus Valley civilization', alternatively referred to as the 'Harappan civilization' on the basis of the first discovery site.²⁷ This civilization thrived across a vast geographical area spanning Pakistan and India, with notable centres of development in the cities of Harappa and Mohenjodaro during the fourth millennium. Recent studies on radiocarbon have contributed to establishing a comprehensive chronology for the Harappan culture, encompassing the early Harappan phase (c. 3200-2600 B.C.E.), the mature Harappan phase (c. 2600-1900 B.C.E.), and the late Harappan phase (c. 1900-1300 B.C.E.).²⁸ Excavations conducted at these sites have unveiled evidence of a sophisticated architectural framework, featuring houses of various sizes, potentially consisting of multiple floors, constructed with rooms arranged around a central courtyard.²⁹ Notably, a well-engineered drainage system was discovered, enabling the prevention of seasonal flooding and facilitating diverse applications of water, such as agricultural use, communal and private bathing, and the provision of freshwater reservoirs.³⁰ Remarkably, recent findings have revealed that toilets and bathing areas were prevalent in numerous households, and in the case of

²⁷ Singh 2008: 137-138.

²⁸ Singh 2008: 138.

²⁹ Kenoyer 2008: 724-725 and Singh 2008: 147-148.

³⁰ See Dash 1999: 6-7, Kenoyer 1991: 353-354, Singh 2008: 148-149, Wujastyk 1995: 19, and Zysk 1985: 1-4.

Harappa, they were found in nearly every house.³¹ Upinder Singh has noted that the emphasis on water provision for bathing suggests a keen focus on personal hygiene and, as also pointed out by Wujastyk, possibly these frequent bathings may have held religious or ritualistic significance.³² Furthermore, it is conceivable that this advanced civilization operated within a class-based society, where individuals fulfilled specific roles, including religious functionaries who may have also served as healers.³³ However, when considering the social or religious aspects of this civilization it is important to approach these ideas with caution, as they remain tentative and speculative hypotheses due to the undeciphered script, which prevents confirmation of the only available evidence—archaeological data.³⁴

During the second millennium, as the decline of the Harappan civilization gradually commenced with a process of de-urbanization, Indo-European groups made their initial appearance in South Asia.³⁵ Initially, they established their settlements in the north-western regions of the South Asian subcontinent, close to the Indus River system and the greater Punjab.³⁶ It was during this time that the traditions of these peoples were documented in a body of liturgical literature called *Vedas*.³⁷ Singh highlights that the Vedic texts primarily serve religious and ritualistic purposes rather than historical accounts. Nevertheless, when ‘combined with the available archaeological evidence, they can be used as *sources* of information on various aspects of the life of people living in the greater Indus valley, the Indo-Gangetic divide, and the upper Ganga valley in the 2nd and 1st millennia BCE’.³⁸ During this new historical phase of the South Asian culture, commonly called ‘Vedic period’, the first significant information about diseases and healing appeared in literature. This period, when Brahmins covered a

³¹ Kenoyer 2008: 725-726 and Sing 2008: 148-149.

³² Singh 2008: 149 and Wujastyk 1995: 19. See also Kenoyer 2008: 725-733.

³³ Wujastyk 1995: 19. For further information on the Harappan people and various hypotheses regarding their social and political organization, see also Kenoyer 2008: 731-733, Parpola 1986 and 2018 (consulted online on 22 July 2023), and Singh 2008: 173-179.

³⁴ See Kenoyer 1998: 128 and Maas 2018: 535-536.

³⁵ See Proferes 2018a (consulted online on 22 July 2023).

³⁶ Proferes 2018a (consulted online on 22 July 2023).

³⁷ Wujastyk 1995: 20.

³⁸ Singh 2008: 183.

predominant social position in this region,³⁹ is typically characterized by distinct cultural and historical phases. Scholars reconstruct these stages based on the diverse phonetic, morpho-syntactic, and lexical features found within the Vedic corpus.⁴⁰ Despite the considerable difficulty in establishing an absolute chronology that directly associates the texts with specific dates, a relative dating can be achieved by dividing the ‘Vedic period’ into three phases.⁴¹

A first phase includes the oldest texts of the *Ṛgveda*, believed to have been composed between 1750 or 1500 and 1200 or 1000 B.C.E.⁴² Some scholars propose that certain portions of this text were composed as early as 2000 B.C.E.⁴³ The *Ṛgveda* is a collection of 1028 hymns (*sūkta*) addressed to various gods, divided in ten books, known as *maṇḍalas*.⁴⁴ The oldest books (II-VII) are referred to as ‘Family Books’, attributed to specific clans or tribes who marked their ownership using ‘clan seals’, such as refrain and poets’ names.⁴⁵ Book VIII contains fewer hymns compared to the previous books and is ascribed to various families. Book IX is entirely dedicated to Soma, the ritual drink. Finally, books I and X are the latest additions to the collection.

The second phase, approximately contemporaneous with or slightly later than 1200-1000 B.C.E. witnessed a transformation in the Vedic social, religious, and political life. This change is evident in the latest hymns of the *Ṛgveda* and in the *mantra* sections of other Vedic texts, the *Sāmaveda*, *Yajurveda*, and *Atharvaveda*.⁴⁶ The *Sāmaveda*, primarily derived from the *Ṛgveda*, consists of ritualistic hymns and melodies sung by a specialised priest known as *udgātṛ* (‘chanter’).⁴⁷ The *Yajurveda* focuses on ritual performances, containing formulas recited by

³⁹ Bronkhorst 2007:3.

⁴⁰ Rossi 2020: 17 and Witzel 2001: 4.

⁴¹ See Proferes 2018a (consulted online on 22 July 2023).

⁴² Rossi 2020: 17, Witzel 2001: 5, and Witzel and Gotō 2007: 427. For a translation with commentary of the *Ṛgveda*, see also Elizarenkova 1999, Geldner 1951, Witzel and Gotō 2007, Witzel, Gotō and Scarlata 2013.

⁴³ Singh 2008: 184-185.

⁴⁴ Jamison and Brereton 2014: 4.

⁴⁵ Singh 2008: 184 and Witzel 1997: 261.

⁴⁶ Proferes 2018a (consulted online on 22 July 2023).

⁴⁷ Boccali, Piano, Sani 2000: 43.

priests during sacrifices.⁴⁸ Finally, the *Atharvaveda*, the most recent and distinct among the *Vedas*, encompasses hymns, spells, charms, sorcery rites, and prayers used to counter illnesses and, as pointed out by Witzel, serves as an invaluable source for understanding ‘the material culture, the customs and beliefs, the desires and sorrows of everyday Vedic life’.⁴⁹ Within the traditions, nine distinct ‘schools’ (*śākhās*) of practice, resulting in various recensions, can be identified for the *Atharvaveda*. However, only two versions have managed to endure to the present day: the recensions of the *Śaunaka* and the *Paippalāda* schools.⁵⁰ The well-preserved *Śaunaka Saṃhitā* includes a *padapāṭha*, an *anukramaṇī*, and a commentary by Sāyaṇa. Moreover, it is accompanied by ancillary texts.⁵¹ Conversely, initially the *Paippalāda Saṃhitā* did not enjoy the same level of fame as the *Śaunaka*, mainly due to its preservation through a single and corrupted manuscript. However, in mid 1950s the situation changed when several manuscripts containing the *Paippalāda* recension of the *Atharvaveda* emerged from the region of Odisha (formerly Orissa). This discovery, which also showed how this version was not only the earliest but also the most influential and widespread, ignited renewed interest in the *Paippalāda* tradition among scholars.⁵² In terms of linguistic style, the *Atharvaveda* exhibits a less archaic language compared to the *Vedas* mentioned above. However, from a content perspective, the material found in the *Atharvaveda*, which encompass older beliefs, superstitions, sorcery, healing rites, and elements of folklore and mystical poetry, suggests its association with an earlier era.⁵³

This first group of liturgical texts (*Ṛgveda*, *Sāmaveda*, *Yajurveda*, and *Atharvaveda*), collectively referred to as *Vedas* (though the term actually encompasses also later texts), were

⁴⁸ See Boccali, Piano, Sani 2000: 40-43 and Witzel 1997: 270-275.

⁴⁹ Witzel 1997: 276. On the *Atharvaveda* see Bloomfield 1897 and 1899, Gonda 1975: 267-311, and Witzel 1997: 275-283.

⁵⁰ Gonda 1975: 272 and Selva 2019: 199.

⁵¹ Selva 2019: 200.

⁵² Rossi 2020: 12 and Selva 2019: 200 and 203-205. See also the online project of a digital critical edition of the *Paippalāda Saṃhitā* with English translation, analysis, and commentary conducted by the Department of Comparative Language Science and the Department of Indian Studies of the University of Zurich (<https://www.atharvaveda-online.uzh.ch/home/paippalada-recension> and <https://www.atharvavedapaippalada.uzh.ch/en.html> [accessed 21/07/2023]).

⁵³ Boccali, Piano, Sani 2000: 28.

originally transmitted orally⁵⁴ and constitute the *Samhitā* or 'collection' of hymns and sacrificial formulas (*mantra*) of various kinds.

The Vedic period comes to an end with a third phase, spanning from 1100 to about 500 B.C.E., likely predating the birth of Buddhism.⁵⁵ Associated with the four *Vedas*, the later Vedic literature comprises a collection of prose commentaries on ritual actions and explanations of liturgical texts. This group includes the prose portions of the *Yajurveda Samhitā*, the prose of the *Brāhmaṇas*, the oldest sections of the *Āraṇyakas* and *Upaniṣads*, and finally the oldest *Śrautasūtras*.⁵⁶ The *Brāhmaṇas* primarily consist of prose that elucidates and describes the performance of rituals and prayers associated with them. The *Āraṇyakas* serve as a continuation of the *Brāhmaṇas* and contain mystical and philosophical explications of the sacrificial rites associated with wilderness, which have to be taught in the 'forest' (*āraṇya*). Finally, the *Upaniṣads*, also referred to as *Vedānta* 'the end of the *Veda*',⁵⁷ represent the mystical and philosophical culmination of *Vedas*⁵⁸ and comprise a collection of 108 texts the quest for liberation from *saṃsāra* ('cycle of rebirth'),⁵⁹ with the *Praśna Upaniṣad* and the *Māṇḍūkya Upaniṣad* being the most recent among them.

As time progressed, starting from the VI-III centuries B.C.E.,⁶⁰ a new body of literature emerged known as *Vedāṅga* (lit. 'a limb of the *Veda*'),⁶¹ primarily dedicated to the exegetic

⁵⁴ Witzel 1997: 258-259. The earliest surviving manuscripts of the texts date back to the 11th century C.E.

⁵⁵ See Proferes 2018a (consulted online on 22 July 2023) and Witzel 1987, 2003: 24-25, 2009 on the dating of Vedic texts and their corresponding geographical location. Witzel explains the challenge in establishing the precise dating of individual Vedic texts and groups. Late Vedic texts are commonly dated after the Middle and Early Vedic texts (after c. 1100 BCE), while the late ones are generally considered to predate the Buddha (Witzel 2009: 290). Gombrich 1992 has put forth a new proposal regarding the date of Buddha's death, suggesting 404 B.C.E. as opposed to the previously widely accepted date of 483.

⁵⁶ Proferes 2018b (consulted online on 22 July 2023).

⁵⁷ MW 1017.

⁵⁸ Panikkar 2001: 43.

⁵⁹ MW 1119.

⁶⁰ Boccali, Piano, Sani 2000: 62.

⁶¹ MW 1015.

study of the *Vedas*, from the perspectives of six different disciplines: phonetics (*śikṣā*), grammar (*vyākaraṇa*), astronomy (*jyotiṣa*), metre (*chandas*), etymology (*nirukta*), and ceremonial (*kalpa*). In a generic sense, the collections dealing with rituals are referred to as *Kalpasūtras*, which are further divided into four categories: *Śrautasūtra*, *Gṛhyasūtra*, *Śulvasūtra*, and *Dharmasūtra*. The *Śrautasūtras* focus on ritual practices, encompassing fire sacrifices, sacrifices for the new moon and full moon, and particularly the solemn ritual of soma sacrifice. The *Gṛhyasūtras* are particularly intriguing, offering rules for domestic rituals, including rites of passage such as wedding or funeral ceremonies, as well as popular customs like naming a child. The *Śulvasūtras* are closely connected with the *Śrautasūtra*, providing information about rules for constructing the altar and measuring the area where the sacrifice is performed. Lastly, the *Dharmasūtras* are instead linked with the *Gṛhyasūtras* and provide rules regarding castes and the various stages of life (*āśrama*).⁶²

The earliest textual evidence concerning health and healing can primarily be located in the hymns of the *Atharvaveda* and certain passages within the *Ṛgveda*. Stories of mythological gods performing healing rites are portrayed in the *Ṛgveda*. Rituals, spells, and exorcisms are more common in the *Atharvaveda*, where healing herbs are invoked to expel disease-demons and to cure fever, wounds, or fractures. Kenneth G. Zysk perfectly highlighted the magico-religious nature of the medical knowledge in the *Vedas*, pointing out that ‘causes of diseases are not attributed to physiological functions, but rather to external beings or forces of demonic nature who enter the body of their victim and produce sickness. The removal of such malevolent entities usually involved an elaborate ritual (...) nearly always necessitating spiritually potent and efficacious words, actions and devices’.⁶³ The diseases are, therefore, the expression of malevolent forces or deities expressing themselves adversely that, by way of possession, become evident through illness. Hence, no differentiation exists between possession and disease,⁶⁴ and, if the illness is caused by malevolent deities, its cure is entrusted to the officiant who, with the use of magic formulas, herbs, amulets, and assisted by benevolent forces, convinces the entity to depart from the patient or redirect its influence towards other

⁶² Boccali, Piano, Sani 2000: 62-63.

⁶³ Zysk 1985a: 8.

⁶⁴ See on ‘possession’ Basu 2018 (consulted online on 22 July 2023)

victims.⁶⁵ Personifications of these spirits are found, for instance, in Taknan, the demon of ‘fever’, or in parasites, considered as authentic demons.⁶⁶ A representative case is the Atharvavedic hymn AVŚ 5.23, where the goddess Sarasvatī, Indra, and Agni are invoked to drive away the evil spirits and cure a child from worms:

1. *ote me dyāvāpṛthivī otā devī sarasvatī |
otau ma indraś cāgniś ca krimiṃ jambhayatām iti ||*

2. *asyendra kumārasya krimīn dhanapate jahi |
hatā viśvā arātaya ugṛeṇa vacasā mama ||*

3. *yo akṣyau parisarpati yo nāse parisarpati |
datāṃ yo madhyaṃ gachati taṃ krimiṃ jambhayāmasi ||*

(...)

10. *atrivad vaḥ krimayo hanmi kaṇvavaj jamadagnivat |
agastyasya brahmaṇā saṃ pinaṣmy ahaṃ krimīn ||*

11. *hato rājā krimīṇām utaiṣāṃ sthapatir hataḥ |
hato hatamātā krimir hatabhrātā hatasvasā ||*

12. *hatāso asya veśaso hatāsaḥ pariveśasaḥ |
atho ye kṣullakā iva sarve te krimayo hatāḥ ||*

13. *sarveṣāṃ ca krimīṇāṃ sarvāsāṃ ca krimīnām |
bhinadmy aśmanā śiro dahāmy agninā mukham ||*

1. I have called upon heaven and earth, I have called upon the goddess Sarasvati, I have called upon Indra and Agni: ‘they shall crush the worm’ (I said).

2. Slay the worms in this boy, O Indra, lord of treasures! Slain are all the evil powers by my fierce imprecation!

3. Him that moves about in the eyes, that moves about in the nose, that gets to the middle of the teeth, that worm do we crush.

(...)

⁶⁵ Boccali, Piano, Sani 2000: 32-34.

⁶⁶ Rossi 2020: 85.

10. Like Atri, like Kaṇva, and like Jamadagni do I slay you, ye worms! With the incantation of Agastya do I crush the worms to pieces.

11. Slain is the king of the worms, and their viceroy also is slain. Slain is the worm, with him his mother slain, his brother slain, his sister slain.

12. Slain are they who are inmates with him, slain are his neighbours; moreover all the quite tiny worms are slain.

13. Of all the male worms, and of all the female worms do I split the heads with the stone, I burn their faces with fire.⁶⁷

This and comparable incantations of the *Atharvaveda* are called *Bhaiṣajyas*, which are specific ceremonies performed as a remedy for sickness.⁶⁸ These spells provide protection against diverse illnesses, poison, worms, or snakebite, as well as promoting virility and hair growth.⁶⁹ During these ceremonies, diseases were directly confronted and depicted as malevolent demons that possess individuals, leading to a slow decline in health. As stated earlier, the responsibility for the cure falls upon the exorcist-healer, who, unable to destroy the malevolent entity, must convince it to depart from the afflicted person. Additional hymns designed to ward off disease are known as *Āyusyas*, which translates to ‘giving long life’. These hymns primarily focus on seeking longevity and protection from diseases that may lead to premature death.⁷⁰ Apart from the aforementioned incantations, the *Atharvaveda* contains various other compositions. The majority of these include: *Pauṣṭikas*, incantations aimed at bestowing blessings for the household, agricultural activities, and business endeavours. *Strīkarmas*, also known as ‘women's rites’, were intended to secure marriage, offspring, and sons, but they also contain particularly intense curses aimed at love rivals or to compel people to fall in love. *Ābhicarikas*, compositions consisting of curses and exorcisms used to counter demons and sorcerers. *Rājākarmas* comprise spells designed to protect and safeguard the ruler or king.⁷¹

⁶⁷ Ed. Orlandi 1991 (Consulted online on 31 July 2023 http://gretil.sub.uni-goettingen.de/gretil/1_sanskr/1_veda/1_sam/avs_acu.htm); transl. Bloomfield 1897. Cf. Bloomfield 1897: 452-455 and Whitney and Lanman 1905: 1.262-263.

⁶⁸ MW 767.

⁶⁹ Van Schaik 2020: 19-20.

⁷⁰ Van Schaik 2020: 20 and Boccali, Piano, Sani 2000: 34.

⁷¹ See Bloomfield 1937: vii-xvi, Van Schaik 2020: 19-23, and Boccali, Piano, Sani 2000: 32-40.

In conclusion, while Vedic medicine or science cannot be classified as a structured system like Āyurveda,⁷² the hymns of the *Atharvaveda* offer valuable insights into an ancient perspective on healing and disease, that remains closely intertwined with magic and religion. More than a hundred hymns are dedicated to the healing of illnesses. As we have observed, these illnesses are caused by hostile agents that possess the individual and inflict suffering. The cure is entrusted to the exorcist-healer, who employs rituals, magical formulas, and invocations to dispel the demonic forces. These practices are complemented by the use of ritual objects such as water, fire, figurines, and often various plants. Over time, despite the transition toward more therapeutic approaches, these magic healing practices, prominent in earlier phases, did not entirely disappear; rather, they endured and persisted in subsequent traditions, even though to a lesser extent. A notable example is found in Buddhism and Āyurveda, which will be discussed later, where charms and incantations coexisted with more complex medical therapies.⁷³

2.2 Ascetic movements and the evolution of healing traditions: A journey through Greater Magadha

Over the course of centuries (from around 500 B.C.E.), India witnessed the emergence of new religious groups, particularly in the region called Greater Magadha, situated east of the confluence of the Gaṅgā and the Yamunā rivers, up until close to the beginning of the Common Era.⁷⁴ This region boasted a unique culture that is believed to have existed simultaneously with Vedic culture for a considerable period,⁷⁵ and it became the birthplace of various spiritual movements. The Jainas, Ājīvikas, and Buddhists stood out as the most prominent groups, all belonging to the category of *śramaṇas* ('ascetic monks or mendicants'). Indeed, these organised communities were known for their diverse practices of wandering asceticism or renunciation, aiming to attain liberation and break free from the cycle of rebirth (Skt. *saṃsāra*). While their

⁷² For further exploration of the concept of science in ancient history, particularly in relation to Vedic science, refer to Staal 2008: 257-287 and Wujastyk 1998a.

⁷³ For further insights into the role of magic in Buddhism, see Van Schaik 2020.

⁷⁴ Bronkhorst 2007: 1-4. See also Torella 2011.

⁷⁵ Bronkhorst 2007: 53. According to Bronkhorst 2007: 1-4 during Patañjali's time these regions were still not considered primarily Brahmanical territory.

doctrines shared significant aspects, such as leading an ascetic life, it is essential to note that their perspectives on *karma* and the methods to achieve liberation differed slightly. The earliest information about early Jainism can be found in the oldest books of the *Śvetāmbara* Jaina canon and in certain passages from the Buddhist canon. These sources reveal that early Jaina asceticism had the purpose of achieving liberation and ending karmic retribution through practices such as abstaining from food and practising immobility until death. It was believed that these actions led to the annihilation of past actions and the cessation of new ones.⁷⁶ The second religious movement that originated in this region and, unfortunately, left no surviving literature, is Ājīvikism. The limited information about this religious community has reached us primarily through Jaina and Buddhist texts. However, as is evident, it is important to acknowledge that these sources may not be entirely reliable, as they appear to have a biased perspective and attempt to depict these religious movement in a negative manner.⁷⁷ Like the Jainas, Ājīvikas aimed to attain liberation by ceasing mental and bodily movements. Differently from the Jainas, Ājīvikas believed that these actions did not lead to the annihilation of past *karma* but only of the present one.⁷⁸ The last of the three movements is Buddhism, founded by Siddhārta Gautama, who is widely recognized within the tradition as the Buddha, also referred to as Śākyamuni ‘the Śākya sage’.⁷⁹ According to the tradition, he is believed to have been born in Lumbinī, western Nepal, around the 5th century B.C.E., while the formalisation of the Buddhist canon took place in the centuries that followed. In contrast to the previous two movements, early Buddhism diverged from the notion promoted by Jainism and Ājīvikism concerning extreme asceticism leading to liberation. According to Buddhists, *karma* is not primarily influenced by actions but rather by intention or will. Liberation becomes achievable only by eliminating this driving force behind our actions.⁸⁰

As the Vedic texts contain evidence of healing treatments of different kind, similarly the texts of Jainism and Buddhism also document medical practices in the Greater Magadha area. As pointed out by Wujastyk ‘structured systematic thought about medicine in India can first

⁷⁶ Bronkhorst 2007: 15-28 and 44-45.

⁷⁷ Bronkhorst 2007: 38.

⁷⁸ Bronkhorst 2007: 45 and 49-50.

⁷⁹ For further analysis of the naming matter, refer to Lo Turco 2018: 20.

⁸⁰ Bronkhorst 2007: 52 and Lo Turco 2018: 17.

clearly be detected in saying of the Buddha'.⁸¹ In the Buddhist canon, in fact, the Buddha identifies eight factors that contribute to suffering: 'bile, phlegm, wind, and their pathological combination, changes of the seasons, the stress of unusual activities, external agency, as well as the ripening of bad karma'.⁸² Referring back to Wujastyk's words 'This is the first moment in documented Indian history that these medical categories and explanations are combined in a clearly systematic manner, and it is these very factors which later become the cornerstone of classical Indian medical theory, or *āyurveda* (Sanskrit, "the knowledge for long life")'.⁸³

Proof of the link between medical practices and fraternities of wandering ascetics can also be found in the accounts of the Greek historians and geographer, Megasthenes (IV century B.C.E.) and Strabo (I century B.C.E.).⁸⁴ These historical records shed light on the healing practices of specific *śramanas*, who were regarded as healers (Gr. *ἰατρικοί*). Their primary method of curing ailments involves the use of grain foods, ointments and poultices. Just like in *Āyurvedic* medicine, Zysk observed that for the *śramanic* healers the internal dietary use of foods aims to restore balance to the bodily elements and regulate the internal functions of the human organism. In contrast, the external application of drugs is directed at eradicating afflictions located on the body's surface.⁸⁵

Returning to the Indian sources, Zysk's meticulous examination of the Pāli canon vividly illustrates the crucial role of Buddhism and Buddhist monasteries in the development and transmission of a medical tradition. In fact, the earliest Buddhist texts contain foundational elements of medicine, with medical knowledge eventually becoming 'an integral part of religious doctrines and monastic discipline'.⁸⁶ In the tradition preserved in the Buddhist *Vinaya*, for instance, a new monk entering the community (*saṅgha*) received, among four resources, cattle urine to be used as a medicine (a medical ingredient that would later on became prevalent in the early *Āyurvedic* tradition). This exemplifies, according to Zysk, how a first form of medicine was considered essential for the well-being of a wandering ascetic.⁸⁷ When more

⁸¹ Wujastyk 2022: 4. See also Scharfe 1999: 612-615.

⁸² Wujastyk 2022: 4.

⁸³ Wujastyk 2022: 4.

⁸⁴ Zysk 1991: 27.

⁸⁵ Zysk 1991: 28-29.

⁸⁶ Zysk 1991: 38.

⁸⁷ Zysk 1991: 40.

settled existence in monastic structures replaced the nomadic and ascetic life, the necessity for treatments in cases of illness endured among monks, leading to the evolution of an extensive pharmacopoeia comprising various foods and incorporating culinary practices.⁸⁸ As the concept of medical care gradually took shape, the roles of different figures also emerged. Initially, in fact, monks themselves looked after to the well-being of their fellow brothers and sisters.⁸⁹ Over time, distinct roles such as nurses, doctors, and patients came to be described in the texts (such as the *Mahāvagga*), each with their own ideal characteristics. For instance, a good patient is one who diligently follows instructions, adheres to prescribed medications, communicates symptoms clearly, and endures pain without complaint. A competent nurse possesses the knowledge to administer medications effectively, discerns what is beneficial or not, displays kindness, and remains undeterred by bodily excretions.⁹⁰ Zysk highlights the parallels between these figures in the Buddhist tradition and the traits of the same individuals, including physicians, found in the later Āyurvedic tradition, particularly in Caraka's work.⁹¹

To sum up, over centuries, India witnessed the rise of new religious groups in the region known as Greater Magadha, alongside Vedic culture. The Jainas, Ājīvikas, and Buddhists were prominent among them. Buddhism and Buddhist monasteries played a crucial role in the development and transmission of medical traditions, integrating medicine into religious doctrines. This religious environment was also home to a new system of theories and practices, called Āyurveda.⁹²

2.3 Āyurvedic medicine

Amongst the traditional medical systems of India, Āyurveda is perhaps the most famous. The term Āyurveda literally means ‘the knowledge (Skt. *veda*) of longevity (Skt. *āyus*)’. Originating in the early centuries before the Common Era, this medical tradition remains extensively practiced in present-day India. It encompasses both preventive and curative approaches, with

⁸⁸ Zysk 1991: 40.

⁸⁹ Wujastyk 2022: 6-7.

⁹⁰ Zysk 1991: 41-42 and Wujastyk 2022: 7.

⁹¹ Zysk 1991: 42-43. For further information on the role of a doctor's assistant in the *Carakasamhitā* and *Suśrutasaṃhitā*, refer to Leslie and Wujastyk 1991.

⁹² Zysk 1991: 117-119.

the primary objective of promoting a long and healthy life for patients. In fact, Āyurvedic texts emphasise the importance of specific daily practices, including exercises, dietary choices, and personal hygiene, to cultivate a robust bodily system.⁹³

Regarding its origin, past claims suggested that Āyurveda evolved from Vedic texts like the *Atharvaveda*. The compendia of Caraka and Suśruta themselves support this origin from the *Vedas*, even though this claim appears to have been made to gain social acceptance and historical validity,⁹⁴ though modern research has revealed more differences than similarities, notably the absence of the theory of *doṣas* in the *Vedas*, challenging this idea. Later on, Jean Filliozat identified parallels between Āyurveda and Greek medical thought, supporting the hypothesis in the late nineteenth century that some basic tenets of Āyurveda were borrowed from Greek physicians in Gandhāra.⁹⁵ However, it is worth noting that many scholars observed the absence of Greek medical loanwords in the Sanskrit medical texts, making it challenging to support this idea.⁹⁶ As mentioned earlier, a more structured approach to medicine is found in the Pāli canon of Buddhism, and Āyurveda shares similarities with this early material. It is now believed that the foundations of classical Āyurveda were likely laid during the time of early Buddhism in the Buddhist and other ascetic communities.⁹⁷ Over the centuries, this medical doctrine gradually evolved and spread throughout Asia, alongside Buddhism, giving rise to various regional traditions once assimilated.

2.3.1 Prominent Āyurvedic sources

The ancient Indian medical system of Āyurveda draws its primary and most ancient knowledge from three collections written in classical Sanskrit. The oldest among this ‘Great Triad’ (Skt. *bṛhatrayī*)⁹⁸ of texts is referred to as *Carakasamhitā* (henceforth Ca.), whose earliest version

⁹³ See Dash 1999: 58-85 and 114-123.

⁹⁴ Wujastyk 2003a: xxix and 2003b: 393-395.

⁹⁵ Filliozat 1964.

⁹⁶ Wujastyk 2003b: 395.

⁹⁷ Wujastyk 2003b: 397.

⁹⁸ The term is not found in the oldest sources, but was most likely coined more recently with the intention of organizing an Āyurvedic canon. This canon comes along with another trio known as the *laghutrayī* or the ‘light trio’ (consisting of the *Mādhavanidāna*, *Śārṅgadharasamhitā*, and

can be approximately dated back to the period between the second century B.C.E. and the first century C.E.⁹⁹ However, its textual history appears to be intricate. According to Dṛḍhabala (fourth-fifth century C.E.), the final redactor of the last chapters of the *Carakasamhitā*, the name Caraka refers to the initial editor of a compendium known as *Agniveśatantra*. In the colophons, in fact, Caraka is not considered the author but rather the revisor of a collection of knowledge gathered by Agniveśa from his teacher, the legendary sage Ātreya.¹⁰⁰ Comprising 120 chapters grouped in eight parts, this seminal work covers a wide range of subjects including pharmacology, diet, diseases causation, anatomy, and therapies.¹⁰¹ The other significant and early text of the triad is the *Suśrutasamhitā*, which, like the *Carakasamhitā*, is characterised by its composition consisting of several historical layers.¹⁰² Divided in six large chapters, it is famous in particular for its advanced and unique section on surgery.¹⁰³ As for its authorship, the colophons of the *Suśrutasamhitā* identify Suśruta as the disciple of the sage Kāśirāja Divodāsa Dhanvantari, who holds a revered position as the god of healing in later Indian tradition.¹⁰⁴ According to the *Suśrutasamhitā*, Dhanvantari received direct knowledge of Āyurveda from Indra and passed it on Suśruta. However, Dhanvantari remains a somewhat mysterious figure, much like Ātreya in the *Carakasamhitā*.¹⁰⁵ As for the dating of this treatise, its earliest layers, primarily focused on surgical practices, may have originated some centuries B.C.E. Subsequently, it underwent significant revision in the centuries leading up to 500 C.E.¹⁰⁶ Finally, Vāgbhaṭa completes the ‘Great Triad’ as the third author. The *Aṣṭāṅgahṛdayasamhitā* of Vāgbhaṭa holds a significant position as one of the most influential work in the field of

Bhāvaprakāśa) (Cerulli 2018, consulted online on 22 July 2023).

⁹⁹ Wujastyk 2022: 14-16. See also Meulenbeld 1999-2002: 1.114. On the textual history of the *Carakasamhitā* see also Maas 2010.

¹⁰⁰ Maas 2010: 1-2, Wujastyk 2003a: 4. On the figures of Ātreya and Agniveśa see also Meulenbeld 1999-2002: 1A.120-130.

¹⁰¹ See Meulenbeld 1999-2002: 1A.7-180.

¹⁰² Wujastyk 2003a: 64.

¹⁰³ See Wujastyk 2003a: 64-71.

¹⁰⁴ Van Alphen 1996: 255-257.

¹⁰⁵ On the figure of Dhanvantari see Meulenbeld 1999-2002: 1A.358-361.

¹⁰⁶ Meulenbeld 1974: 431-432 and Wujastyk 2003a: 63-64. On the textual history of the *Suśrutasamhitā* see also Birch et al. 2021, Harimoto 2014, Klebanov 2010, 2021a and 2021b, and Wujastyk 2006.

Āyurveda. This significant text presents a synthesis of earlier medical knowledge and is believed to have been composed around the seventh century.¹⁰⁷ Vāgbhaṭa is also credited with another work, the *Aṣṭāṅgasamgraha*, which appears to be a later and extended version, partly in prose, of the *Aṣṭāṅgahṛdaya*.¹⁰⁸ Despite limited information available about the author, Vāgbhaṭa himself provides a few details within the *Aṣṭāṅgasamgraha* (A.s.U. 50.203-204). According to the text, Vāgbhaṭa originated from Sindh, which is presently located in the southeastern region of Pakistan. His name was derived from his paternal grandfather, a renowned physician. Furthermore, Vāgbhaṭa's father, Siṃhagupta, who was also a physician, and Avalokita are mentioned as his mentors.¹⁰⁹

The 'Light Triad' (Skt. *laghutrayī*), traditionally known as such, consists of the *Mādhavanidāna*, the *Śārṅgadharasaṃhitā*, and the *Bhāvaprakāśa*. The *Mādhavanidāna*, also referred to as *Rogaviniścaya* by his author, is a comprehensive compendium comprising sixty-nine chapters.¹¹⁰ It primarily draws from the works of Caraka, Suśruta, and Vāgbhaṭa's *Aṣṭāṅgahṛdaya*, with minor references to the *Aṣṭāṅgasamgraha* and the *Siddhasāra* of Ravigupta.¹¹¹ Furthermore, certain sections of the texts may have been authored by the writer himself or originated from unidentified sources. Concerning its timeline, the composition of the *Mādhavanidāna* is likely to have occurred no earlier than 650 C.E., as indicated by quotations from the *Siddhasāra*. Meulenbeld proposes a terminus ante quem of 900 C.E., given references to the *Mādhavanidāna* found in the *Siddhayoga*.¹¹² A second significant text is the *Śārṅgadharasaṃhitā*, a treatise consisting of thirty-two chapters, likely dating back to around the fourteen century.¹¹³ The text is particularly intriguing because it provides the first description of diagnosis by analysing the patients' pulse, a method that was not present in earlier Indian medical texts.¹¹⁴ The *Bhāvaprakāśa*, authored by Bhāvamiśra in the sixteenth

¹⁰⁷ Meulenbeld 1974; see also Meulenbeld 1999-2002: 1A.631-635 and Wujastyk 2003a: 193-194.

¹⁰⁸ See Wujastyk 2003a: 195-196.

¹⁰⁹ Meulenbeld 1999-2002: 1A.597-598, Wujastyk 2003a: 194-195.

¹¹⁰ See Meulenbeld 1974.

¹¹¹ Meulenbeld 1999-2002: 2A.61.

¹¹² Meulenbeld 1999-2002: 2A.71.

¹¹³ Meulenbeld 1999-2002: 2A.196 and 206-207.

¹¹⁴ Meulenbeld 1999-2002: 2A.199-200. Cf. Emmerick 1991.

century, is the third and final work of the minor triad. This extensive text exhibits an encyclopedic nature and is divided into three sections (*khaṇḍa*) with a glossary (*nighaṇṭu*).¹¹⁵

The Āyurvedic tradition encompasses numerous other texts that hold significant and comparable importance to the text of the two triads. One such text is the *Bhelasaṃhitā*, a comprehensive compilation divided into eight sections.¹¹⁶ Its early composition is believed to have started around 400 C.E. and reached completion around 750 C.E.¹¹⁷ The work, which is preserved in a single incomplete manuscript,¹¹⁸ takes the form of a dialogue between the sage Ātreya, who was the same teacher of Agniveśa, and one of his students Bhela or Bheḍa. Although the *Bhelasaṃhitā* contains also information found in Suśruta's compendium, the strong agreement between the two treatises of Caraka and Bhela suggests that they both belong to the same medical school of Ātreya.¹¹⁹ Another important text is the *Kāśyapasamhitā*, which deals with women's and children's ailments, providing insights into their diseases and treatment methods.¹²⁰ It takes the form of a dialogue between Kāśyapa, the teacher, and Vṛddhajīvaka, his pupil. Only two incomplete manuscripts of this work have been preserved, and scholars estimate its origin to be around the seventh century.¹²¹

In the present research, emphasis has been placed primarily on the Āyurvedic texts of Caraka, Suśruta, and Vāgbhaṭa, traditionally regarded as the canonical texts, for the purpose of comparing and understanding the Khotanese Āyurvedic *Piṇḍaśāstra*.

2.3.2 The fundamental tenets of Āyurveda

Delineating the basic principles of Āyurveda is not an easy task, being a combination of various historical layers, traditions, and theories, developed over a long period of time in different areas of India. However, it is appropriate to introduce a basic framework for the

¹¹⁵ Meulenbeld 1999-2002: 2A.239-240.

¹¹⁶ See Meulenbeld 1999-2002: 2A.13-24.

¹¹⁷ Meulenbeld 1999-2002: 2A.24.

¹¹⁸ The manuscript is now preserved at the Mahārāja Serfoji's Sarasvatī Mahāl Library in Tanjore (Meulenbeld 1999-2002: 2A.13).

¹¹⁹ Meulenbeld 1999-2002: 2A.16.

¹²⁰ See Meulenbeld 1999-2002: 2A.25-41.

¹²¹ Wujastyk 2003a: 164.

content of this research. For this end, I will highlight some of the key ideas from this rich medical tradition in the subsequent sections.

Undoubtedly, a well-known tenet in Āyurveda is the doctrine of the three *doṣas*, also known as *tridoṣavāda*. *Doṣas* are regarded as pathogenic elements or morbidic entities, encompassing *vāta* (referred to as ‘wind’), *pitta* (referred to as ‘bile’), and *kapha* or *śleṣman* (referred to as ‘phlegm’). The term *doṣa*, literally meaning ‘fault, defect’,¹²² has frequently been rendered as ‘humour’. This translation choice may derive from its resemblance, to some extent, to the Greek humour system (Gr. χυμοί ‘juices’) found in the Hippocratic and Galenic corpus, encompassing blood, phlegm, yellow bile, and black bile.¹²³ However, the term ‘humour’, as understood in the context of Greek fluids, does not precisely align with the *doṣas* of Indian medicine, particularly in the case of *vāta*, which does not conform to the fluid nature indicated by the word ‘humour’.¹²⁴ In addition, each of these four Greek humours, whose imbalance leads to the emergence of diseases, is characterised by a pair out of four fundamental qualities: hot/cold, dry/humid. Phlegm is characterised as cold and humid, yellow bile as hot and dry, black bile as cold and dry, and blood as hot and humid.¹²⁵ Within the context of Indian medicine, the scenario becomes somewhat more intricate, primarily as a result of the evolutionary changes that this doctrine has experienced over the course of time, influenced in part by the prevailing philosophical ideas of the Vaiśeṣika and Sāṃkhya schools of thought during the composition of medical texts.¹²⁶ Hartmut Scharfe exhaustively traced the semantic evolution of *doṣa* within the North Indian tradition.¹²⁷ Through an examination of various passages in the *Carakasamhitā*, he observed that in the earlier sections of the texts, *vāta*, *pitta*, and *kapha* are depicted as intrinsic elements of the human body (Ca.Sū. 18.48 and 20.9). When

¹²² According to Vogel 1995: 77, the term *doṣa* can be traced back etymologically to the causative form of the verb *duṣ-*, ‘to become corrupted’. As a result, he suggests that an appropriate translation for *doṣa* could be ‘Fehlerquelle’ (‘source of fault’).

¹²³ See Speziale 2018 for insights into the interpretation of *tridoṣa* and the translation methodology employed by Muslim and Hindu scholars for a Persian-speaking audience. Also, refer to Zimmermann 1989, where the translation of *doṣa* as ‘humour’ is instead explained and justified.

¹²⁴ Comba 1991: 78 and Scharfe 1999: 612.

¹²⁵ Gazzaniga 2018: 58-59.

¹²⁶ Scharfe 1999: 612. See also Comba 1991: 35-75.

¹²⁷ Scharfe 1999. See also Leslie 1992 and Wujastyk 2003a: xl-xliv.

these elements are in a state of equilibrium, they are referred to as *dhātus*, signifying ‘elements, constituents’. Conversely, if an excess of any of them is detected or they become inflamed, they assume the appellation of *doṣa* ‘fault’ (Ca.Sū. 7.39-41). In contrast to the *Carakasamhitā*, the *Suśrutasamhitā* introduces certain new elements. Within this text, the concept of *doṣas* being intrinsic to the human body persists; however, these elements are also referred to as *doṣas* even when they exist in their natural state. Moreover, they are also attributed specific primary locations within different organs in their uncorrupted state (Su.Sū. 21.7). Additionally, blood (*śoṇita*) acquires a distinctive role,¹²⁸ occupying a unique position between the *doṣa* system and the bodily elements (that will be explored subsequently).¹²⁹ Strong influence had the Sāṃkhya philosophy where the three *guṇas* (*sattva*, *rajas*, and *tamas*) eventually evolved their meaning to connote ‘good quality or virtues’. To echo Scharfe’s words ‘In Suśruta’s view the correspondence is symmetrical: just as the three strands of Sāṃkhya [i.e. *guṇas*] transform themselves into the world through the subtle and gross elements (*tan-mātra*, *bhūta*), the three faults [i.e. *doṣas*] cause illnesses through the bodily elements (*dhātu*)’.¹³⁰ The homology between the three *doṣas* and the three *guṇas* was further reinforced in the works of Vāgbhaṭa. Moreover, in his texts, the *tridoṣas* theory is both affirmed and systematised as the basic constituent of the body.

One of the crucial processes in the body is digestion. This physiological action is elucidated by the terms *pācana* ‘cooking’ or *dīpana* ‘burning’, while the driving force behind digestion is denoted as *agni* ‘fire’ or *jāṭharāgni* ‘fire of the belly’.¹³¹ Upon food ingestion, digestion segregates it into two components: ‘pure matter’ (*prasāda*), also referred to as *rasa*, and ‘impure matter’ (*kiṭṭa*).¹³² The food’s *rasa* (*āhārarasa*) then metamorphoses into the nutrient fluid termed *rasa*, the first among the seven body constituent elements (*sapta-dhāthu*: *rasa*, *rakta*, *māṃsa*, *medas*, *asthi*, *majjā*, and *śukra*). Through an intricate process involving all the *doṣas*, *rasa* progressively undergoes a transformation, evolving from *rakta* ‘blood’ to *māṃsa*

¹²⁸ See for instance Su.Sū. 1.24 or Su.Sū. 21 where diseases are said to be caused by an imbalance of wind, bile, phlegm, and blood or by their combination.

¹²⁹ See Meulenbeld 1991 on the position of blood within the doctrine of the three *doṣas*.

¹³⁰ Scharfe 1999: 627. See also Comba 1991: 67-71.

¹³¹ Wujastyk 2001: 398.

¹³² Maas 2018: 545.

‘flesh’, then to *medas* ‘fat tissue’, *asthi* ‘bone tissue’, *majjā* ‘marrow’, and ultimately culminating in *śukra* ‘semen’.¹³³ The existence of semen does not align with the concept of metabolism in the female body. Suśruta's *Compendium* briefly indicates a correlation between semen and menstrual blood or female breast-milk.¹³⁴ Nevertheless, within Āyurvedic texts, this aspect is approached with a degree of ambiguity.

All these body constituent elements generate the impure matter mentioned earlier, *kiṭṭa*, which is referred to by the name *mala* ‘waste product’, with reference to the impure parts of the successive metabolic transformation of *dhātus*.¹³⁵ These include urine, sweat, faecal matter, as well as *vāta*, *pitta*, *kapha*, impurities of the ears, eyes, nose, mouth, hairs follicles and reproductive organs, head and body hairs, beard, nails, and more.¹³⁶ The proper elimination of *malas* and an appropriate balance between *dhātus* and *malas* are essential in order to maintain a healthy body.

However, the question arises: how does a disease come into being? Firstly, as was discussed above, *doṣas* circulate through the body but they also have a specific primary location. For instance, *vāta-doṣa* is said to be located mainly in the large intestine, *pitta-doṣa* in the navel, and *kapha-doṣa* in the chest. When a *doṣa* remains uncorrupted, also the body retains its state of well-being. Nonetheless, if a *doṣa* begins to accumulate within its designated location or spreads and accumulates to other areas, it provokes the onset of a disease.¹³⁷ Wujastyk particularly emphasizes this aspect, as there's a prevalent tendency in secondary sources to view illness solely as an outcome of imbalance rather than displacement of *doṣas*. In the Āyurvedic texts, in fact, ‘disease arises when a humoral substance collects in the wrong part of the body, and becomes irritated or inflamed (Skt. *prakupita* ‘angered’)’.¹³⁸ The causes of irritation of *doṣas* are diverse, encompassing factors like faulty nutrition, seasonal variations, inadequate treatments, suppression of natural urges, inappropriate behaviour, or bad karma. Among the factors contributing to illness, particularly in the case of women and children, the

¹³³ See Comba 1991:94-100, Das 2003b: 553-558, Das 1984: 237-239, Dash 1999: 25-27, Meulenbeld 1974: 470-471, and Wujastyk 2003a: xvii-xxii.

¹³⁴ Wujastyk 2001: 399.

¹³⁵ Das 2003: 568-569. See also Meulenbeld 1974: 488-490.

¹³⁶ Meulenbeld 1974: 488.

¹³⁷ Wujastyk 2003a: xl-xli. See also Comba 1991: 78-94 and Dash 1999: 17-25.

¹³⁸ Wujastyk 2003a: xli.

presence of demon possession and its disruptive influence also plays a role.¹³⁹ It is interesting to notice that the concept of contagion (i.e. transmission of a disease through close contact) holds a limited significance in the early Āyurvedic tradition.¹⁴⁰ Nevertheless, this observation doesn't imply a lack of curiosity regarding why some illnesses appeared to impact entire communities. In Ca.Vi. 3, for instance, Agniveśa interrogates his teacher Ātreya, seeking an explanation for why some diseases exhibit identical symptoms in individuals with different constitutions, diets, ages, genders, and lifestyles.¹⁴¹ This problem, in fact, presented a theoretical challenge, given that in Āyurveda, diseases are perceived as personal and unique, intrinsically linked to the patient's individual constitution. In response, Ātreya informs his student that epidemics are rooted in moral causality, specifically arising from conflicts and the abandonment of a virtuous life by leaders of cities or regions. This leads to the neglect of their own people and the environment, resulting in the degradation of the air. The air becomes excessively hot, cold, and humid. Similarly, water is corrupted when left unattended, leading to its turbidity and the departure of wildlife from it.

Furthermore, early Āyurvedic texts encompass a systematic classification of diverse disease types. For instance, in the Ca.Sū. 11.45-46, a comprehensive categorization of diseases is outlined, comprising three main categories: endogenous (*nija*), exogenous (*āgantū*), and mental (*mānasa*). Endogenous diseases are said to arise due to the *doṣas*, hence affecting internal organs without immediate external signs. Exogenous diseases, on the other hand, results from factors such as trauma, fire, or contaminated air. Lastly, mental disorders arise from non-fulfilment of desires, and a wise person should abstain from unhealthy behaviours to prevent such maladies. The disease classification in the *Suśrutasaṃhitā* is more intricate. In Su.Sū. 24, Suśruta delineates suffering associated with diseases into three broader groups: of internal origin (*ādhyātmika*), of external origin (*ādhibhautika*), and of divine or atmospheric origin (*ādhidaivika*). Further subdivision places these sufferings into seven disease clusters

¹³⁹ The *Kaśyapasaṃhitā* (VII cent. C.E.) specifically focuses on the ailments afflicting women and children, along with corresponding therapeutic approaches. See on this topic Wujastyk 1998b, 1999, and 2003a: 163-189.

¹⁴⁰ For a comprehensive exploration of the matter of contagion in India, see Das 2000 and Conrad and Wujastyk 2000.

¹⁴¹ Wujastyk 2016: 46-47. Refer also to the passage translated in Wujastyk 2003a: 38-43.

originated by effect of various causes: (1) *ādibalapravṛtta*, (2) *janmabalapravṛtta*, (3) *doṣabalapravṛtta*, (4) *saṃghātabalapravṛtta*, (5) *kālabalapravṛtta*, (6) *daivabalapravṛtta*, (7) *svabhāvabalapravṛtta*.¹⁴² Among diseases of internal origins, the (1) *ādibalapravṛtta* category encompasses conditions inherited from one of the parents due to the defect of semen (*śukra*) or the female procreational fluid (*śoṇita* ‘blood’). Instances includes *arśas* (haemorrhoids) or *kuṣṭha* (skin affliction). The (2) *janmabalapravṛtta* category comprises ailments resulting from improper behaviour of the mother during pregnancy. These include congenital blindness or deafness, dwarfisms and more. The (3) *doṣabalapravṛtta* category results from derangement of *doṣas* due to improper diet or behaviour. These diseases can have origin in the stomach or the intestine, with potential physical or mental manifestations. External diseases encompass (4) *saṃghātabalapravṛtta*, arising from confrontations with formidable adversaries. These diseases includes illness caused by external wounds or by bite of a beast or a poisonous animal. The final category, diseases of divine or atmospheric origins, includes (5) *kālabalapravṛtta*, arising from seasonal variation, temperature, humidity, and more. (6) *Daivabalapravṛtta* disorders result from curses, transgression against deities, Atharvavedic incantations, etc. Lastly, (6) *svabhāvabalapravṛtta* represents diseases of natural origins, like hunger, thirst, or old age, categorised as *kāla* (‘timely’), when they occur at the proper time, or *akāla* (‘untimely’), when they occur prematurely. These conditions can emerge in individuals adhering to or disregarding health guidelines.

Concerning the methods employed to address diseases, the Āyurvedic texts delineate a classification of treatments into ritual and non-ritual approaches.¹⁴³ The ritual treatments includes incantations, propitiatory rites, offerings, gifts, fasting, oblations, employment of gems and botanical substances, and more, paralleling practices found in the *Atharvaveda*.¹⁴⁴ Non-ritual healing modalities span treatments with or without medicinal substances, along with surgical interventions. Medical treatments encompass the administration and application of carefully examined drugs, which are meticulously evaluated on the basis of their attributes, effects, natural composition, optimal collection times, patient constitution, and other factors. Non-medicinal treatments involve surprising or agitating the patient, inducing sleep, or

¹⁴² See Meulenbeld 1999-2002: 1A.216-217.

¹⁴³ Maas 2018: 544.

¹⁴⁴ Ca.Vi. 8.87 and Ca.Sū. 30.20-21.

utilizing massage techniques.¹⁴⁵ Surgical procedures, on the other hand, encompass incisions, extractions, leech applications, or puncturing.¹⁴⁶ This categorization is not solely confined to early texts such as the *Carakasamhitā* or the *Suśrutasamhitā*, but also persists through the later historical phases of Āyurveda.

2.3.3 Foundations and concepts of Āyurvedic pharmacology

2.3.3.1 Botanical expertise and mastery

Caraka acknowledges the existence of various people with botanical expertise, as for instance shepherds or forest-dwellers. However, true mastery in the field of Āyurveda rests not merely on recognizing plants, but on possessing a comprehensive understanding of the qualities and actions of each medicinal substance, together with a knowledge of their proper administration. This level of expertise is essential for one to be regarded as an eminent Āyurvedic physician (Skt. *vaidya*) (Ca.Sū. 1.120-123)¹⁴⁷:

oṣadhīrnāmarūpābhyāṃ jānate hyajapā vane |
avipāścaiva gopāśca ye cānye vanavāsinaḥ
na nāmajñānamātreṇa rūpajñānena vā punaḥ |
oṣadhīnāṃ parāṃ prāptiṃ kaścidveditumarhati
yogavittvapyarūpajñastāsāṃ tattvaviducyate |
kiṃ punaryo vijānīyādoṣadhīḥ sarvathā bhiṣak
yogamāsāṃ tu yo vidyāddeśakālopapāditam |
puruṣaṃ puruṣaṃ vīkṣya sa jñeyo bhiṣaguttamaḥ

¹⁴⁵ Ca.Vi. 8.87.

¹⁴⁶ Ca.Sū. 11.55 and Su.Sū. 24.1.

¹⁴⁷ Cf. also Ca.Sū. 4.29 and Su.Sū. 36.10.

‘Goatherds, shepherds, cowherds and other forest-dwellers know the plants by name and form (120). Nobody can comprehend fully about the plants only by knowing the name and forms (121). He is the real knower of them who, after knowing the name and form, has got knowledge of their administration, let alone the one who knows plants in all aspects (122). He is the best physician who knows administration of these (plants) according to place and time and also keeping in view the individual constitution (123)’.¹⁴⁸

Indeed, the education of a proficient *vaidya* relied on the meticulous memorisation of Sanskrit medical texts, which served as reservoirs of knowledge about symptoms, ailments, botanical remedies, and curative methodologies. Regarding the pharmacological knowledge, his proficiency rested upon four basic concepts on which depends the efficiency of any medicinal substance: *rasa* ‘taste, flavour’, *vipāka* ‘post-digestive flavours’, *vīrya* ‘potency’, and *prabhāva* ‘specific action’.¹⁴⁹

2.3.3.2 Key concepts of medicinal substances

In terms of *rasa*, the various properties of drugs are described according to their six distinct flavours (*rasa*): *madhura* ‘sweet’, *amla* ‘acid’, *lavaṇa* ‘salty’, *kaṭu* ‘pungent’, *tikta* ‘bitter’, and *kaṣāya* ‘astringent’.¹⁵⁰ Each taste corresponds to a set of inherent properties (*guṇa*) and actions (*karman*). It is important to note that *guṇas* actually pertain to the inherent qualities of substances bearing the particular taste, rather than being directly linked to the taste itself.¹⁵¹ These general properties (*sāmānyaguṇa*) of substances encompass a total of twenty qualities organized into ten pairs of opposites. Additionally, these properties are categorized into two distinct groups: twelve weaker properties, susceptible to the effects of digestion, and eight stronger properties that resist digestion.¹⁵² Aligned with the theory of *rasas*, there is the process

¹⁴⁸ Transl. by Sharma 1998: 13.

¹⁴⁹ See Meulenbeld 1987: 1-18 and Dash 1999: 56-57.

¹⁵⁰ See Wujastyk 2000 for insights into the interplay between *rasas* and *doṣas* in terms of combinatorics.

¹⁵¹ Meulenbeld 1987: 5

¹⁵² See Meulenbeld 1987: 7-8 for a precise overview of all the properties and their respective groupings.

of transformation of a particular taste during the digestion. Two processes are distinguished: *avasthāpaka* and *niṣṭhāpāka*. During *avasthāpaka* the ingested food undergoes three phases, progressively transitioning from sweet to sour and then to pungent. In contrast, *niṣṭhāpāka* marks the initiation of taste transformation that eventually leads to *vipāka*, a concept that will be explored in subsequent discussion. Notably, during the process of *niṣṭhāpāka*, the tastes of sweet, sour, and pungent remain constant, whereas the salty taste becomes sweet and the bitter and astringent tastes shift towards pungency, all of them gradually diminishing their influence as digestion advances.¹⁵³

Next to *rasa*, *vipāka* refers to the partial transformation of flavours during the digestion, occurring subsequent to the *niṣṭhāpāka* process. As explained earlier, this transformation reduces the previous six *rasas* to three: sweet, sour, and pungent.¹⁵⁴ This alteration arises due to the shift of the bitter and astringent flavours to a pungent taste, while the salty flavour transforms into sweet. According to Meulenbeld, this theory is secondary to the theory of *rasa* and influenced by the *avasthāpaka*.¹⁵⁵ This hypothesis is based on the observation made in Āyurvedic texts that the effects of certain substances do not align with their original taste, a phenomenon noted through the taste of eructation or vomited food after partial digestion. Furthermore, following the transformation of *rasas*, *vipāka* gains more strength comparing to the strength of taste.

The third concept is *vīrya* ‘potency’. This term encompasses a broader context, referring to all the actions induced by the *vīrya* itself within a substance, or more specifically, to the force attributed to a cluster of properties within medical drugs. The latter properties, eight in number, are arranged in pairs of opposing qualities: *uṣṇa* ‘hot’, *śīta* ‘cold’, *guru* ‘heavy’, *laghu* ‘light’,¹⁵⁶ *snigdha* ‘unctuous’, *rūkṣa* ‘dry’, *manda* ‘soft’, and *tīkṣṇa* ‘sharp’.¹⁵⁷ The properties endure the digestive process and consequently bestow prolonged effects, prevailing over *rasa* and *vipāka*.

¹⁵³ Meulenbeld 1987: 7. See Ca.Ci. 15.9-11, Ca.Sū. 26.57cd-58, A.h.Sū. 9.20-21.

¹⁵⁴ As noted by Meulenbeld 1987: 7, Suśruta (Su.Sū. 40.10-12) acknowledges only two *vipāka*, which are sweet and pungent.

¹⁵⁵ Meulenbeld 1987: 9.

¹⁵⁶ In Su.Sū 40.5 and 41.11 the couple *guru* ‘heavy’, *laghu* ‘light’ are replaced by ‘clear’ (*viśada*) and ‘mucilaginous’ (*picchila*). Meulenbeld 1987: 11.

¹⁵⁷ Dash 1999: 56-57.

Additionally, three gradations of *vīrya* are distinguished: pungent, acid, and salty tastes exhibit increasing heat, while bitter, astringent, and sweet tastes assume cooler qualities.¹⁵⁸

The last concept in Indian pharmacology is *prabhāva* 'specific action'.¹⁵⁹ It can be understood as *cintyaśakti* 'conceivable power' or as *acintyaśakti* 'non-conceivable power'.¹⁶⁰ The former refers to the effects of a medicinal substance that can be predicted through reasoning and manifest in the actions of *rasa*, *vipāka*, and *vīrya* when they are in conformity with each other. The latter, *acintyaśakti*, refers to the effects of a substance that remain unpredictable. These effects manifest when the actions of a substance cannot be deduced from its properties.¹⁶¹

2.3.3.3 Classification of medicinal substances

More in general, Āyurvedic drugs can be classified in three categories: 1. drugs of plant origin (Skt. *audbhida*), which include fruits, seeds, flowers, barks, etc.; 2. drugs of mineral origin (Skt. *pārthiva*), such as salt, tin, clay, gems, ash, etc.; 3. drugs of animal origin (Skt. *jāṅgama*), including milk, fat, dung, urine, honey, etc. Incorporating minerals and metals, particularly mercury, became notably prevalent in the realm of Alchemy, known as *rasaśāstra*. The canonical works of this discipline are believed to have emerged during the ninth and tenth centuries C.E. However, some traces of the use of certain inorganic substances are found already in the *Carakasamhitā*, even though it is worth noting that the intricate preparation processes found in later Āyurvedic and alchemical texts are absent in this earlier source. In the *Carakasamhitā*, these substances are recommended for both internal and external applications, often in the form of powders or after being subjected to heating or mixed with other medicinal agents.¹⁶²

2.3.3.4 Pharmaceutical processes, therapeutic regimens

¹⁵⁸ Meulenbeld 1987: 11-13.

¹⁵⁹ As noted by Meulenbeld 1987: 14, the *Suśrutasamhitā* does not use the term *prabhāva*, even though terms with a similar meaning are found in this treatise.

¹⁶⁰ Meulenbeld 1987: 13.

¹⁶¹ Meulenbeld 1987: 13 and Maas 2018: 547.

¹⁶² Meulenbeld 1999-2002: 1A.103-104. See on Sanskrit alchemical literature Hellwig 2009, White 1996, 2018 and Wujastyk 1984.

Various pharmaceutical processes are described in Āyurveda for the preparation of medicinal substances. These include prescribing medicaments in different forms such as: juice extracted from the leaves or flowers; decoctions created by boiling drugs in water, followed by filtration and often enriched with additional ingredients like butter, oil, or honey; pastes derived from grinding leaves, barks, roots, or stems of plants mixed with water; medicated oil or ghee, produced by cooking liquids with drug decoctions or pastes; alcoholic preparations like herbal wines prepared through yeast fermentation; pills; powders sourced from plants, minerals, metals, gems, etc.; and collyria. Before initiating the actual therapeutic regimen for a disease, particularly in specific cases such as rheumatic disorders, the physician frequently advises preparatory measures for the patient's body. These methods may involve the use of purgative medicaments and emetics, where the patient consumes oils of fatty substances along with food. Another approach involves fumigation of the nose and mouth or fomentation, where the patient's body is induced to sweat through various warming techniques. An alternative method could encompass applying oils to anoint the patient's body. All these techniques facilitate the unblocking of *doṣas*, allowing them to exit the body or return to their original locations.¹⁶³

2.3.3.5 Diet (*āhāra*) and daily regimens (*dinacaryā*)

Another significant aspect within the Āyurvedic discipline pertains to diet (*āhāra*).¹⁶⁴ This aspect extends beyond its relevance to patients seeking recovery and encompasses the dietary practices that both individuals aiming to preserve their well-being and those desiring a prolonged and healthy life should adopt. A fundamental principle is certainly the practice of moderation across various aspects of life and of course this applies also to food, which is categorised in appropriate and inappropriate quantity that can be consumed.¹⁶⁵ An appropriate quantity of food should fill the stomach to about three-quarters of its capacity. It should avoid causing a sense of heaviness in the abdomen or discomfort during sitting, lying down, or any physical activity. Moreover, it should enhance overall strength, complexion, and general well-being.¹⁶⁶ An inappropriate quantity of food can manifest as either insufficient or excessive.

¹⁶³ Wujastyk 2003: xx. See also Dash 1999: 27-28.

¹⁶⁴ See Zimmerman 1987: 202-206.

¹⁶⁵ Ca.Vi. 2.5.

¹⁶⁶ Ca.Vi. 2.3-6.

Insufficient intake can lead to a depletion of strength, complexion, and vitality, negatively affecting lifespan, virility, immunity, physical and mental well-being, and potentially giving rise to various *vāta*-related diseases. Excessive quantity, on the other hand, can concurrently aggravate all three *doṣas*, resulting in symptoms such as colic pain, abdominal discomfort, body aches, and even fainting when *vāta* is predominant. Involvement of *pitta* can lead to fever, diarrhoea, excessive thirst, and drowsiness, while *kapha* involvement might cause vomiting, indigestion, fever, and a sensation of bodily heaviness.¹⁶⁷ Naturally, the quantity and nature of food that an individual should consume depends also on a multitude of other factors. Among these is digestion, which, when functioning optimally, ensures the preservation of both the three *doṣas* and the seven *dhātus*.

In the opening chapter of the *Vimānasthāna*,¹⁶⁸ Caraka exposes the eight essential factors that play a role in dietary methods, requiring the physician's careful attention. The initial factor pertains to the nature (*prakṛit*) of substances employed as food or remedies. Certain foods, for example, exhibit a light quality, stimulating the appetite, and possessing attributes of wind and fire. Conversely, others are considered heavy, characterized by earthy and watery traits, and often disrupting the *agni* (digestive force).¹⁶⁹ Ca.Sū. 5.10-12 enumerates foods recommended for regular consumption, such as dried meat, pork, beef, buffalo, fish, vegetables, and lotus stems. Additionally, some particular varieties of rice, namely *śāli* and *ṣaṣṭikā*, *mudga* beans, honey, ghee, barley, etc. are deemed suitable for daily consumption. Certain elements, such as pepper, alkali, and salt, should instead be ingested in moderation. The second factor encompasses the processing (*karāṇa*) of natural substances through actions like churning, exposure to water or fire, infusion, and steeping, which give new properties to the original substance. The third factor is the combination (*saṃyoga*) of two or more substances together. Quantity (*rāśi*), encompassing both total (*sarvagraha*) and individual (*parigraha*) aspects, constitutes the fourth factor. The fifth factor involves the origin (*deśa*) of the substance, determining the location of growth. The sixth factor, time (*kāla*), considers subjective elements like age alongside objective elements such as seasonal influences. Rules for prudent dietary practices (*upayogasamsthā*) are the seventh factor, encompassing guidance to

¹⁶⁷ Ca.Vi. 2.7.

¹⁶⁸ Ca.Vi. 1.21-25.

¹⁶⁹ Comba 1991: 172.

refrain from consuming new food before digesting the prior meal, maintaining an appropriate rhythm of eating, neither too fast nor too slow, avoiding simultaneous ingestion during conversations or laughter, and eating in favourable places and with favourable accessories among others. Finally, the eighth factor includes rules concerning the habits of the consumer (*upayoktar*) regarding food consumption.

With respect to the sixth factor (*kāla* ‘time’), the seasonal influence holds particular importance for Indian physicians, who categorize the year into six distinct seasons: early and late winter, spring, summer, rainy season, and autumn.¹⁷⁰ In winter, the digestive force intensifies, enabling the body to digest any food. Consequently, diets rich in fats, oils, sour elements, heaviness, and saltiness are considered suitable. Transitioning to spring, the rising temperatures liquify accumulated *kapha*, unsettling digestion and causing diseases. To counter this, people are advised to abstain from heavy, oily, and sour foods. Instead, they may explore emetic therapies or engage in physical activities. During summer a sweet, cold, liquid and unctuous diet is suggested. The consumption of alcohol is discouraged, while adequate hydration is emphasized. The rainy season witnesses a decline in the digestive force due to vitiated *doṣas*, in particular *vāta*. Accordingly, a diet comprising sour, salty, and unctuous elements is prescribed to restore health. Autumn marks the manifestation of vitiated *pitta* following the rainy season, necessitating the intake of cool, light, sweet, and bitter foods and beverages.

In addition to maintaining a balanced diet and using preventive medicines, Āyurvedic physicians also advise adhering to a daily regimen (*dinacaryā*) that promotes the well-being of both the body and mind. In the *Suśrutasaṃhitā* and in *Aṣṭāṅgahṛdayasaṃhitā*, guidelines for daily practices are meticulously outlined.¹⁷¹ According to Suśruta, one's morning routine commences with brushing the teeth using a toothbrush (*dantapavana*) made from a twig with particular characteristics, like being straight and with a sweet, bitter, astringent, and pungent taste. Accompanying this, a toothpaste composed of honey, powdered plants, sesame oil, and rock salt is employed.¹⁷² Vāgbhaṭa echoes these practices set forth by Suśruta, yet he suggests

¹⁷⁰ See Dash 1999: 74-77.

¹⁷¹ Su.Ci.24 and A.h.Sū. 2.

¹⁷² Su.Ci. 24.4-10ab.

initiating the day by voiding urine and faeces, while following some specific rules.¹⁷³ Subsequent to tooth brushing, the cleansing regimen extends to the tongue, which is addressed using a tongue scraper made of gold, silver, or wood. The morning purification continues through facial cleansing and the application of a special collyrium with properties for alleviating impurities, pain, and itching. The process advances with mouth cleansing using oils and the inclusion of betel leaves for chewing.¹⁷⁴ Vāgbhata introduces an additional practice – the inhalation of medicinal smoke – aimed at preventing ailments arising from the increasing of *vāta* and *kapha*. Subsequently, attention is directed toward the head, recommending anointing and combing the hair to encourage strength, softness, and freedom from parasites, but also as a help against head and ear ache. Besides the head, also the body necessitates massage with oils, a technique that removes fatigue and pain while giving vigour and tonicity.¹⁷⁵ Of notable significance is physical exercise, promoting bodily strength, lightness, firmness, and compactness. This practice prevents digestive problems, helps enduring fatigue, variation of temperature, thirst, aids in countering the effects of ageing, and keeps disease at distance.¹⁷⁶ After exercise, it is important to take a bath and a massage, which effectively mitigate heat and sense of fatigue. Every aspect of the body requires consideration, and much attention is given also to the cure of the feet and nails, the use of shoes, the practice of shaving, wearing a turban, resting in a soft bed, using an umbrella, and using a stick as protection against potential hazards posed by wildlife or uneven terrain. A wise man is also advised to speak judiciously, employing a gentle tone, displaying kindness and compassion universally, while affording reverence to elders, superiors, and deities. On the other hand, he should avoid dangerous activities such tree climbing, mountain scaling, riding a wild horse, or being in contact with dangerous animals. Furthermore, emphasis is laid on the imperative of not suppressing natural urges – urination, defecation, vomiting, sneezing, ejaculation, hunger, thirst, tears, yawning, and the like.¹⁷⁷ Moreover, a wise person will not be guided by one's

¹⁷³ A.h.Sū. 2.1-4.

¹⁷⁴ Su.Ci. 24.15-24 and A.h.Sū. 2.5-7.

¹⁷⁵ Su.Ci. 24.25.37 and A.h.Sū. 2.8-9.

¹⁷⁶ Su.Ci. 24.38-51 and A.h.Sū. 2.10-13.

¹⁷⁷ Su.Ci. 24.89-101 and A.h.Sū. 2.19-48

emotions and thoughts, but rather will keep them under control avoiding to hurt other living being, engage in infidelity, or indulge in theft.

2.3.3.6 Challenges in translating and interpreting medical terminology in ancient texts: Insights from Āyurveda

One of the most significant challenges faced by translators of medical texts from Sanskrit, or Khotanese for that matter undoubtedly revolves around identifying appropriate translations for medical terminology, especially for diseases and anatomical terms. Certain words, in fact, carry various meanings or can be interpreted technically or non-technically.¹⁷⁸ As we have observed above, a term like *doṣa* serves as a prime example of this complexity and, frequently, finding suitable English equivalents for such technical terms is extremely challenging. The common approach among scholars is to minimize the use of contemporary medical vocabulary or, as Wujastyk notes, to avoid ‘reading back into the ancient and medieval Sanskrit texts ideas and terms from the post scientific-revolution period’.¹⁷⁹ The understanding of the body's concept in ancient India was in fact quite distinct from our contemporary perspective. For instance, the lungs were not associated with breathing, the heart was seen as the centre of emotions and thoughts, and the heartbeat was not linked to blood circulation.¹⁸⁰ This was due also to the difficulties of observing the human body internally in ancient time. Glimpses of internal anatomy could have occurred on battlefields, execution grounds, and Vedic sacrificial rituals, which occasionally involved cattle, as in fact the terms used to describe the gastrointestinal system seem to show.¹⁸¹ Rahul P. Das highlights how, however, these opportunities often lacked the detail required for thorough scientific investigation due to factors like ritualistic practices or the chaos of battle. He emphasizes that genuine investigatory dissection allowing detailed observation was a rarity in ancient India and the available evidence for such practices is insufficient.¹⁸² Not only in India but also in various other ancient culture, in the absence of direct dissection-based knowledge, alternative sources were utilised. These sources included

¹⁷⁸ Wujastyk 2003a: xxxix.

¹⁷⁹ Wujastyk 2003a: xlv. See also Das 2011: 68 and Meulenbeld 1974: 3-4.

¹⁸⁰ Ferrari 2022: 225.

¹⁸¹ Das 2011: 70 and Ferrari 2022: 225.

¹⁸² Das 2011: 70-71.

extrapolating observations from animal bodies, drawing analogies from nature, or from everyday life, such as comparing food metabolism to cooking over a fire, where the pot with food symbolized the body and the fire represented bodily processes.¹⁸³

The intricate system of tubes or vessels within the body, essential for its nourishment, is an example of the challenges in translation and interpretation of some internal body parts.¹⁸⁴ These conduits transport various fluids, such as blood, milk, *rasa*, *doṣas*, or semen. These complex structures have been often identified in modern times with arteries, veins, or nerves even though there is no clear identification in the texts. I have chosen to follow Wujastyk's approach in translating these medical terms with maximum neutrality, employing terms such as tubes or vessels.¹⁸⁵ One of these channels is *sirā* 'ductus', with approximately 700 instances in the body, carrying blood and the three *doṣas*. Originating from the navel, their colours differ on the basis of the carried fluid.¹⁸⁶ Another type of channel, *dhamanī* 'pipe', numbering 24, also originates from the navel but extends in different directions: up, down, and sideways. Those ascending carry sensory functions like sound, touch, vision, taste, smell, along with actions like yawning and laughing. Conversely, the descending ones transport *vāta*, semen, faeces, urine, and subdivide further.¹⁸⁷ Another significant channel is *srotas* 'tube'. According to Suśruta, the body initially contains 22 tubes, with each of the 11 substances having 2 corresponding tubes. Two tubes carry breath connected to the heart and nutritive pipes, while another set carries food linked to stomach and food pipes. Additionally, tubes transport water, nutritive juice, blood, flesh, fat, urine, faeces, semen, and menstrual blood, with corresponding attachments. Caraka adds three more categories: bone, marrow (completing the seven basic body elements), and sweat, omitting menstrual blood.¹⁸⁸

This is just a single illustration of the complexity involved in interpreting the body in Āyurveda. A number of organs described in the Āyurvedic texts in fact pose challenges in terms of aligning them with modern anatomical understanding. The text of the *Piṇḍasāstra*

¹⁸³ Das 2011: 72.

¹⁸⁴ See Das 2003b and Ferrari 2022 for a more detailed explanation of the *hṛdaya* system, commonly referred to as the heart, along with its associated network of tubes.

¹⁸⁵ Wujastyk 2001: 399-401 and 2003: xlvi.

¹⁸⁶ Wujastyk 2001: 399-400.

¹⁸⁷ Wujastyk 2001: 400.

¹⁸⁸ Wujastyk 2001: 400-401.

naturally brings forth similar difficulties, which will be addressed to the best extent possible in the commentary.

3. Āyurvedic medical texts across Central Asia: Manuscripts, translations, and influences

During the early centuries of the current era, Āyurvedic medicine found extensive practice in Central Asia, evidenced by the discovery of medical texts written in diverse languages such as Sanskrit, Sogdian, Tocharian, Old Uighur, and Khotanese across this extensive region. One of the most well-known examples involves the texts contained in the Bower manuscript, which dates back to the first half of the sixth century C.E.¹⁸⁹ The name of the manuscript is derived from H. Bower, a British lieutenant at the time, who acquired it from a local inhabitant during a mission to Kucā in 1890, a settlement located in the north of the Tarim Basin.¹⁹⁰ Interestingly, the manuscript was uncovered from a *stūpa* adjacent to a monastery, dedicated to its possessor, the Buddhist monk Yaśomitra. Although it is commonly referred to as the ‘Bower manuscript’, this appellation is somewhat imprecise, as the true possessor was likely the monk Yaśomitra. Furthermore, it is not a single manuscript but rather a collection of fragmentary manuscripts grouped together, encompassing seven treatises: three on Āyurvedic medicine, two on divination with dice, and two on incantations against snakebite.¹⁹¹ A.F. Rudolf Hoernle, then serving as the government palaeographer in Calcutta, achieved the remarkable feat of deciphering the manuscript and, eventually in 1892, embarked on the ambitious project of producing a comprehensive edition complete with an English translation, glossary, and facsimile plates of the texts.¹⁹² The manuscript is characterised by an oblong shape, in the form

¹⁸⁹ Wujastyk 2003a: 149.

¹⁹⁰ Meulenbeld 1999-2002: 2A.3.

¹⁹¹ Wujastyk 2003a: 151.

¹⁹² Hoernle's initial edition of a portion of the texts was released in 1893, followed by a second part presented in two sections during 1894-95, while the remaining content was made available in 1897. Subsequently, in 1908, the Sanskrit index was published, along with a revised translation of the medical segments (I, II, and III) in 1909. Lastly, the introduction to the work reached publication in 1912. See also Meulenbeld 1999-2002 2A.3.

of an Indian *pothī* manuscript, and comprises fifty-one birch bark leaves. The script employed is Gupta, and it is plausible that the texts were copied by four distinct scribes.¹⁹³ The language used is a mix of literary Sanskrit and a Sanskrit with various Prakrit influences. The sections of utmost relevance to the current research lie within parts I to III, which are exclusively dedicated to medicine. The first treatise, written in forty-three verses, is dedicated to garlic (*laśuna*), from its mythological origins to its medical properties. Subsequently (verses 44-132), the discourse transitions to miscellaneous subjects, embracing discussions on the digestive fire, *rasāyana* formulations, guidelines pertaining to medicinal proportions, preparations for eye lotions, collyria, facial applications, eyelid pastes, remedies for hair concerns, and treatments for cough ailments. The second treatise was divided in sixteen chapters but the last part is incomplete. The initial chapter contains recipes for powders and syrups, while the second focuses on medicated ghees, and the third revolves around medicated oils. Chapter four has a miscellaneous nature, containing various recipes against a wide range of diseases. Chapter five is devoted to enema formulas, chapter six to *rasāyana* recipes, chapter seven to gruels, and chapter eight introduces aphrodisiacs. Chapter nine and ten encompass collyria and hair dyes respectively. Chapters eleven, twelve, and thirteen offer insights into *harītakī* ‘chebulic myrobalan’, *śilājatu* ‘molten ore’, and *citraka* ‘leadwort’. The fourteenth chapter, although incomplete, pertains to children diseases. The third treatise contains a fragmentary formulary, aligning its contents with the first three chapters of the second treatise. The medical treatises contained in the Bower manuscript share notable affinities with the earliest Sanskrit medical texts. It is noteworthy to recognize that the textual structure and typology not only align closely with these early Sanskrit medical works, but also establish a considerable similarity with the *Siddhasāra*, but also with the *Jīvakapustaka*, and the *Piṇḍasāstra*, especially in the structure of the recipes and the organization of materials.

Additional Āyurvedic texts, composed in Sanskrit and discovered in Central Asia, specifically in the Caves of the Thousand Buddhas near Dunhuang, include the treatise of the *Jīvakapustaka*, originating from the tenth century. The Sanskrit text of the *Jīvakapustaka* is preserved within the manuscript Ch. ii.003 in 71 folios, where it alternates with the Khotanese translation.¹⁹⁴ Notably, the Sanskrit version exhibits severe corruption, suggesting that the

¹⁹³ Meulenbeld 1999-2002 2A.4.

¹⁹⁴ For references on the studies conducted on this text, refer to footnote 27 in paragraph 1.5.2.

copyist might have lacked a comprehensive knowledge of the language. Furthermore, in comparison with the Khotanese translation, the Sanskrit text appears to be more concise, while the Khotanese version tends to offer a more detailed elucidation concerning the nature, quantities, and use of the ingredients. While the six manuscripts containing the Sanskrit *Siddhasāra* of Ravigupta, of which only two hold the complete text, were not discovered in this region, the significance of the text in the spread of medical knowledge along the Silk Roads remains profound.¹⁹⁵ As Emmerick suggested, the author of this work could have lived contemporaneously with Vāgbhaṭa (600 C.E.) or shortly thereafter, approximately around 650 C.E.¹⁹⁶ Ravigupta's text involves the reorganization of traditional Indian medical material across 31 chapters, each dedicated to distinct topics. This text gained immense popularity in Tibet and Central Asia, leading to translations in Tibetan, Khotanese, and Old Uighur. Moreover, Ravigupta's work achieved recognition among Persian and Arabic scholars, leading to the integration of numerous passages into the *Kitāb al-Ḥāwī* written by Rhazes (ca. 925 C.E.). Additionally, in 1279, Faraj b. Salim translated part of it into Latin under the title *Continens*.¹⁹⁷ The Tibetan version is entirely preserved and finds its place in the Tibetan Tanjur. When compared to the Sanskrit original, which is a faithful prose translation, the Tibetan version emerges as clearer and less concise, featuring additional information not present in the Sanskrit source. The Khotanese version, though not fully extant, remains a substantial text, which closely corresponds to the Tibetan text. Moreover, the Khotanese introduction suggests that this version was translated directly from the Tibetan, even though in certain instances it aligns more closely with the Sanskrit original. The Old Uighur *Siddhasāra* is preserved in twelve fragments, consisting of both bilingual Sanskrit and Old Uighur portions written in Brāhmī script (edited by Dieter Maue),¹⁹⁸ as well as of a fragmentary monolingual Uighur version.¹⁹⁹ The latter are found on the reverse side of Chinese Buddhist scrolls, many of these fragments have been recognized as corresponding to passages within the *Siddhasāra*.

¹⁹⁵ See Emmerick 1980: 4 for the mss. For references on the studies conducted on this text, refer to footnote 25 in paragraph 1.5.1.

¹⁹⁶ Emmerick 1980: 1.

¹⁹⁷ Zieme 2007: 310-311.

¹⁹⁸ Maue 1996. See also Emmerick 1980: 13 and Zieme 2007.

¹⁹⁹ Zieme 2007.

Staying within the framework of Uighur texts, it is evident that Indian medicine exercised a profound influence on the evolution of an Old Uighur medical literature. As previously observed, the *Siddhasāra* of Ravigupta was one of the Sanskrit texts translated into Uighur. Besides this, within the medical literature, translations of the *Yogaśataka*²⁰⁰ and of Vāgbhaṭa's *Aṣṭāṅgahṛdayasaṃhitā* can also be found. In relation to the latter, its identification was first accomplished by Maue, who recognized that one of the fragments corresponded to the concluding segment of the fifth chapter within the *Nidānasthāna*. Subsequently, additional fragments were also successfully located.²⁰¹ As Maue observed, unfortunately only a mere fraction – less than 0.3 percent – of the original text has survived. Nonetheless, as Maue states, 'it is the only Central Asian testimonium of one of the most authoritative works of Indian medicine and as such a precious tessera in the fragmentary mosaic of the Silk Road cultures'.²⁰² The *Yogaśataka* is similarly preserved in both Sanskrit and Old Uighur bilingual and in Uighur alone. The Sanskrit original compilation of verses encompasses approximately a hundred compound medicine recipes and gained significant popularity, initially in India and later extending to Tibet and Central Asia. In fact, three Sanskrit fragments were discovered in a bilingual manuscript from Kucā, which can likely be dated to the VII century or an even earlier period.²⁰³ This manuscript includes a translation in Tocharian B, which, while not strictly literal, is expanded and accompanied by explanatory content.²⁰⁴ Beyond its translations into Old Uighur and Tocharian B, the *Yogaśataka* was also rendered into Tibetan and integrated into the Tanjur. Besides the *Yogaśataka*, Tocharian medical literature comprises approximately 70 published medical fragments, predominantly in Tocharian B, although numerous unpublished ones are found also in Tocharian A, the other language spoken up to the thirteen century in the oasis in the North of the Tarim Basin.²⁰⁵ Regrettably, a substantial portion of these texts is very fragmentarily preserved, which poses challenges in identifying parallels in Sanskrit,

²⁰⁰ Zieme 2007: 309

²⁰¹ Maue 2008.

²⁰² Maue 2008: 116.

²⁰³ Meulenbeld 1999-2002: 140.

²⁰⁴ The initial edition was published by Lévi 1911, followed by a second and comprehensive edition with facsimiles by Filliozat 1948. A subsequent revision of the Filliozat edition was carried out by Carling 2003a.

²⁰⁵ Carling 2007: 324. See also Carling 2003b.

Khotanese, or other languages. Nonetheless, notable scholarly efforts have been undertaken by researchers like Gerd Carling and Federico Dragoni in the comprehensive examination of Tocharian medical terminology, particularly in discerning borrowings from neighbouring languages.²⁰⁶

Finally, within the realm of Sogdian, fragments of medical texts are also found. One notable instance is a bilingual Sanskrit and Sogdian fragmentary text written in Brāhmī.²⁰⁷ The surviving sections focus on four recipes which aim at curing eye diseases. However, the fragmentary nature of the text poses challenges to its complete understanding. Additionally, other Sogdian medical text fragments emerge, including one preserved on the verso of a manuscript which features a Manichaean narrative on the recto. Plausibly dated between the 8th and 11th centuries C.E.,²⁰⁸ the surviving portion of this manuscript seemingly contained medical treatments of a gynaecological nature. Notably, it presents the earliest instance from Central Asia prior to the advent of Islam, detailing a treatment for the restoration of virginity.²⁰⁹ Unfortunately, our understanding of medical vocabulary in Sogdian remains limited, leaving many pharmacological and medical terms in this language untranslated. Fragments of Vāgbhaṭa's *Aṣṭāṅgahṛdayasaṃhitā* translated in Sogdian were also recently discovered.²¹⁰

²⁰⁶ See Carling 2007 and 2004 and Dragoni 2021 and 2023.

²⁰⁷ See Maue and Sims-Williams 1991.

²⁰⁸ Reck and Benkato 2018.

²⁰⁹ Reck and Benkato 2018: 69.

²¹⁰ Reck and Wilken 2015.

4. The Dunhuang manuscripts: Pelliot chinois 2893 and Ch. 00265

4.1 *The sealed library of the Mogao Caves*

Located in an oasis at the edge of the Taklamakan Desert (north-west China), the ancient city of Dūnhuáng 敦煌 (in Gansu province) served as a strategic outpost at the entrance of the Hexi Corridor along the Southern branch of the Silk Road. Over the centuries, Dunhuang flourished not only as a centre of commercial exchange but also as a Buddhist centre of study and devotion, becoming a meeting point of people from different linguistic and cultural backgrounds. The historical and religious importance of this city is reflected in the shrines built by the pilgrims and monks at the Mogao cliffs, located in the south-east of Dunhuang. The Buddhist Mogao caves, also known as the ‘Caves of the Thousand Buddhas’, are a complex of hundreds of grottoes (ca. 500) intricately carved into the rock over time and decorated with astonishing paintings and sculptures. One of the most important discoveries was undoubtedly the Mogao Cave No. 17, also called ‘library cave’. In a hidden chamber, the Daoist monk Wáng Yuánlù 王圓箒, the self-appointed guardian and restorer of the caves, found at the beginning of 1900 thousands of well-preserved manuscripts and paintings. News of this extraordinary find reached explorers like the British-Hungarian A. Stein and the French sinologist Paul Pelliot, who hastened to the Mogao Caves. The first to arrive at the beginning of 1907 was Stein, who in *Ruins of Desert Cathay* (1912) describes the tough negotiation with Wang to obtain part of the manuscripts. This collection, which was further expanded during the third Stein’s expedition (1913), is now preserved at the British Museum and the India Office Library in London.²¹¹ Few months later, a second western explorer, the French sinologist Paul Pelliot (1878-1945), reached the library cave that he described as ‘la plus fameuse découverte de manuscrits chinois que l’histoire de l’Extrême-Orient ait jamais eu à enregistrer [...]’.²¹² He carefully examined the tens of thousands of manuscripts left and selected the most interesting ones. The collection is now preserved in France at the Département des manuscrits orientaux of the Bibliothèque Nationale in Paris. Recognizing the significance of the Mogao manuscripts, Chinese scholars and authorities later arranged for the collection of the remaining materials,

²¹¹ See Skjærvø 2002.

²¹² A private letter written by P. Pelliot to Émile Senart (26 March 1908) <http://idp.bl.uk/database/institute.a4d?id=23> (accessed on January 2023).

now housed at the National Library of China in Beijing. Japanese expeditions led by Count Ōtani Kōzui 大谷光瑞 (1876-1948) in the 1911-1912, followed by the Russian Sergej Oldenburg (1863-1934) in the 1914-1915, also contributed to collecting these documents.²¹³

The reasons behind the sealing of the library cave have been topic of discussion since Stein's expeditions.²¹⁴ Various theories have been proposed about its original function and why it was filled with manuscripts, paintings, and religious artifacts. The dating of the youngest manuscripts indicates that the cave was sealed by the beginning of the eleventh century.²¹⁵ After examining previous scholars' theories, Imre Galambos and Sam Van Schaik have identified some of the possible functions of this hidden chamber and the reasons why it was subsequently closed.²¹⁶ In the first place, it is known that, during the mid-ninth century, this hidden room was the meditation cave of the monk Hóngbiàn 洪辯 and, after his death, a funerary shrine. Therefore, it seems possible that some of the manuscripts recovered once belonged to him. A second possibility is connected with the discovery of small fragments of religious texts, besides complete documents and paintings. Most likely the cave was also an occasional location of rituals: the burial of damaged scriptures as offerings was a common practise among Chinese and, in general, Central Asian Buddhist cultures. Even though they may have been old or damaged, these documents and fragments were still considered and treated as relics, as they contained the Buddha's teachings. These theories also consider the cave's potential role as a storage space for extra manuscripts or commissioned copies donated to the monastery's library. This aligns with the belief that reproducing a Buddhist *sūtra* could generate merit for the donors.

4.1.1 Contents and languages of the manuscripts

Because of its proximity with the trade route of the Hexi Corridor, Dunhuang was a flourishing centre of trade and religion where monks, merchants, and soldiers used to exchange information about religion, politics, and cultural thoughts. The multilingual and multicultural

²¹³ Fujieda 1966: 9-13. See on the location of manuscripts Fujieda 1966.

²¹⁴ See on this topic Galambos and Van Schaik 2012: 18-28, Rong and Hansen 1999, and Rong and Galambos (transl.) 2013: 109-136.

²¹⁵ Galambos and Van Schaik 2012: 27.

²¹⁶ Galambos and Van Schaik 2012: 18-26.

society of Dunhuang is, as a matter of fact, reflected in the contents of the extant manuscripts. Since this town of Han origins was under the Tibetan rule from the 786 until the 848, when the whole region returned to China,²¹⁷ the two prevailing languages were accordingly Tibetan and Chinese. Hence, it is not rare to find manuscripts containing Chinese, Tibetan, and Chinese-Tibetan bilingual texts or glossaries. However, these are not the only languages found, as manuscripts containing Sanskrit, Khotanese, Sogdian, and Uighur texts are also extant. The majority of these texts are Buddhist sūtras, most of them translations from Sanskrit originals, but it is not rare to find texts of divination and astrology, official records, or medical texts.²¹⁸

4.2 Pelliot chinois 2893 and Ch. 00265

As mentioned above, over one hundred Khotanese manuscripts were recovered from the ‘Caves of Thousand Buddhas’. Amongst them, two manuscripts preserve the text studied here: Pelliot chinois 2893 and Ch. 00265.

The partial Dunhuang manuscript Pelliot chinois 2893 [P 2893] is located at the Bibliothèque Nationale in Paris. On the other hand, the also partial Ch. 00265 is preserved at the British Library, where it has the shelf number IOL Khot S 9. Like most of the Khotanese manuscripts from Dunhuang, it is now located at the British Library, after having been recovered by A. Stein during his expeditions. Hélène Vetch and Mauro Maggi provided empirical evidence to support that P 2893 and Ch. 00265 were originally part of a unified Chinese scroll manuscript.²¹⁹ Plausibly, the manuscript fell apart in ancient times and, during its reassembly in the tenth century, the sheets constituting ms Ch. 00265 were inadvertently excluded. Maggi’s article provides compelling proof of a continuous connection between lines 1 and 42 of the Stein manuscript and lines 91a and 91b of the Pelliot manuscript.²²⁰

²¹⁷ See Galambos and Van Schaik 2012: 61-67.

²¹⁸ See Galambos and Van Schaik 2012:14-17 and Takata 2000.

²¹⁹ See Maggi 2008a.

²²⁰ Maggi 2008a: 79-80.

4.2.1 Codicological and palaeographical features

The ms P 2893 comprises 14 leaves, the first and last one of which are mutilated, being at the extremities of the scroll. It measures now 25.2 to 26.5 × 612 cm. The paper colour is light beige and the type is coarse-grained and rather thick. The sheets are irregularly glued together, with some spots of moisture and fat, marks of pink ink, and small holes and cracks but, overall, are in fairly good conditions. The ms Ch. 00265 measures 26 × 95 cm, comprises five leaves, and, also well preserved, inserts itself between the fifth and sixth leaves of P 2893. On average, a single line of text comprises approximately 24-27 *akṣaras*.

The recto of the manuscripts originally contained *juan 4* of the Chinese apocryphal Buddhist *Dafangbian Fo baoenjing* 大方便佛報恩經 ‘Sūtra of the great good means (*mahopāya*) used by the Buddha to repay kindness’. According to the colophon of P 2893, the copying of the *sūtra* was commissioned to a lay scribe by the Chinese monks Xingkōng 性空 and Dàojuán 道圓: “Record of copying done on behalf of the monks Xingkong and Daoyuan by a hired hand” 僧性空与道圓顧人. Van Schaik and Galambos identify Daoyuan with the monk who, in 936, travelled to India and spent ten years in Khotan and who around the middle of the ten century was passing through Dunhuang. They date the manuscript ‘to the decade following 965 when Daoyuan returned to China from his trip’, and, like Mauro Maggi, assign the present split condition of the manuscript to before the sealing of the Dunhuang cave in the early years of the eleventh century.²²¹ The recto of the manuscript contains two lines in Khotanese and a few syllables in the same script.

The verso of the manuscripts contains at the beginning of P 2893 a brief Buddhist text²²² and, starting from line 32, a medical text, both copied later than the Chinese Baoenjing. The Khotanese text is written in a very regular cursive ductus and in 20-21 lines per sheet, in a less compact and less precise manner than the Chinese text contained on recto. Before writing, thick grid lines were written on the paper perhaps to ensure that every syllable was written evenly. Where still visible, it is possible to notice that the text is written in the middle of each line and that often the written lines unexpectedly deviate from the original grid line. The name of the monk Daoyuan occurs faintly also on this side of the scroll, between the junction of two

²²¹ Galambos and Van Schaik 2012: 104, 107-108, 119-120, 124.

²²² See Bailey 1942: 893.

sheets and the Khotanese text, proving that the latter was written afterwards and once the sheets had been glued together.

It was noticed that the Chinese *sūtra* may not be complete and that at least three entire sheets are missing from the beginning of the manuscript, even though the first sheet is visibly damaged as is usually the case with the edge of the first and last sheets.²²³ It is likely that the Khotanese medical text was written after the original scroll had been discarded and was lacking already the first three hypothetical sheet.

4.3 Pelliot chinois 2889

An additional manuscript has been taken into consideration in the present research, since its content shares similarities with the medical text found in P 2893 and Ch. 00265. The Chinese scroll Pelliot chinois 2889 [P 2889] is a small manuscript of ten leaves in dark brown paper, measuring 24.5 to 25.5 × 373.5 cm and now preserved at the Bibliothèque Nationale in Paris. The recto contains a Chinese *sūtra*, whose first line says ‘Buddhist canon of the Kaiyuan monastery of Khotan’ 于闐開元寺一切經, which shows that it is originally one of the scriptures kept in the Kaiyuan Temple in Khotan. The verso of the manuscript contains instead a Khotanese text of fifteen lines, the first one of which is mutilated. The last two lines were probably written by a second hand. Even though the whole text is written in a regular cursive ductus, the initial thirteen lines are in a lighter ink, the *akṣaras* are larger and more space is left between them. The last two lines are instead in a dark ink, the *akṣaras* are smaller and very close to each other.

The Khotanese text was edited by Harold W. Bailey in *Khotanese Texts* 3.78. Even though with some variations, ll. 2-5 correspond to ll. 16-18 of the London manuscript Ch. 00265,²²⁴ ll. 5-8 to ll. 78-82 of the Paris manuscript P 2893,²²⁵ and finally ll. 9-13 to *Jīvaka-pustaka* § 5 (50r4-v1).²²⁶ The last two lines have yet not been identified.

²²³ Galambos and Van Schaik 2012: 124.

²²⁴ *KT* 3.17-18.

²²⁵ *KT* 3.78.

²²⁶ *KT* 1.141.

5. The *Piṇḍasāstra*: a Khotanese medical text

The critical edition and translation of the medical text contained in the afore mentioned manuscripts P 2893 and Ch. 00265 are the main object of the present research. The medical text occupies the whole of the Ch. 00265 (§§ 21b-41a in my numbering) and lines 32-267 of P 2893 (§§ 1-21a and §§ 41b-128). Until now, it has only received preliminary editing by H. W. Bailey,²²⁷ provided tentative translations for numerous short passages from the text in his *Dictionary of Khotan Saka* (henceforth *Dict.*).²²⁸ Prods O. Skjærvø has subsequently provided a re-edition and provisional translation of manuscript Ch. 00265 only.²²⁹ However, the most valuable contribution was provided by Ronald E. Emmerick (1937-2001), who spent decades investigating the topic of Khotanese and Khotanese medical texts and was undoubtedly the foremost authority on the subject. Emmerick worked on the manuscript P 2893 and left a draft critical edition and provisional translation that covers almost half of the text (§§ 1-21a and 41b-77). I have had the privilege to start my research from this left material and to review and complete Emmerick's unfinished work.

5.1 Content of the text

The text, written in a late variety of Late Khotanese and now identified with the conventional title of *Piṇḍasāstra* (from hereon PiŚ),²³⁰ is a collection of Āyurvedic prescriptions mainly of medicated pastes or poultices (Skt. *piṇḍa(ka)-*), classified by type of diseases or area where the medicament must be applied. Besides poultices, the *Piṇḍasāstra* describes also the preparations of a few decoctions, an emetic, a fumigation, an edible medicament, and two collyria. The medical work consists of 128 paragraphs of various length, which are divided in the text by a double colon sign (:).

The paragraphs and contents of the *Piṇḍasāstra* are as follows:

Chapter 1: §§ 1-8

Poultices for the eyes;

²²⁷ *KT* 3.17–19 (Ch. 00265) and 82–93 (P 2893).

²²⁸ Bailey 1979.

²²⁹ Skjærvø 2002: 488–490 (as IOL Khot S 9).

²³⁰ Maggi 2019a: 251, n. 30.

Chapter 2: §§ 9-14	Poultices for the stomach;
Chapter 3: §§ 15-34	Poultices for swellings;
Chapter 4: §§ 35-48	Poultices to apply on the liver;
Chapter 5: §§ 49-55	Poultices to apply on the spleen;
Chapter 6: §§ 56-62	Poultices to apply on the navel;
Chapter 7: §§ 63-73	Poultices for scrotal enlargement and downward motion;
Chapter 8: §§ 74-76	Remedies for the sexual dysfunction;
Chapter 9: §§ 77-83	Poultices for piles;
Chapter 10: §§ 84-100	Poultices for itching;
Chapter 11: §§ 101-115	Poultices for rheumatism;
Chapter 12: §§ 116-128	Prescriptions of all and every kind;

Differently from the *Siddhasāra* or the primary traditional Āyurvedic compendia, the Piś deviates from a systematic treatise format, focusing instead on delineating simple preparations employed as effective remedies for various ailments such as skin diseases, piles, rheumatism, respiration issues, abdominal swellings, eyes diseases, and other disorders. Notably, this book lacks any presence of medical theory and omits references to the aetiology of the diseases or the involvement of *doṣas*. Instead, the author promptly transitions from describing the ingredients and preparation of the remedy to briefly outlining the associated symptoms.

The general structure of the *Piṇḍasāstra* entails each chapter commencing with a concise opening line, which introduces either the name of the disorder or the specific body part affected by the diseases to be cured. An instance can be observed in § 9, where the second chapter is introduced with the subsequent sentence:

tti vā khāysāṇa piṇḍā

‘The following (are) poultices for the stomach’

Similarly, § 101 introduces the penultimate chapter as follows:

tti vā vāśārūṃ va piṇḍā

‘These (are) poultices for rheumatism’

These general opening lines are followed by the related paragraphs. Within each paragraph, an initial presentation encompasses an inventory of ingredients, typically divided in the manuscript by a dot. I consecutively numbered each ingredient, with the exception of excipients (e.g. water) due to their role as inactive substances with distinctive functions, such as facilitating drug softening or absorption. Following the list of ingredients, detailed instructions are provided for the preparation of the medicament, which may involve processes such as grinding, mixing, and boiling. Ultimately, each paragraph concludes by imparting directions concerning the application of the medicament to the specific body part affected by the ailment.

Despite all efforts, no identifiable source material for this text has been found this far. Nonetheless, it is worth noticing that certain ingredients, particularly plants, are attributed with analogous healing properties in both the *Piṇḍaśāstra* and renowned Indian Āyurvedic compendia. This suggests a plausible scenario in which the author derived these remedies by incorporating information from diverse medical treatises.

Evidence of the text being a copy from a preceding manuscript is suggested by the presence of scribal errors, including instances of words repetition (known as dittography) and peculiar omissions resulting from visual oversight (termed homeoteleuton). It cannot be ruled out, though, that this text, which was based on the earliest Āyurvedic theories, was assimilated by the Khotanese culture and community and may contain elements of local medical tradition. These recipes may then have been the result of the author’s therapeutical and herbal knowledge derived from personal practical experience, indigenous medical traditions, and an Āyurvedic education.

5.2 Translation techniques of botanical names

The *Piṇḍaśāstra*, as any Indian or Khotanese medical texts, has a multitude of herbal ingredients. Their identification has always been considered challenging. In the Āyurvedic tradition, plants may have many synonyms, and those synonyms may also be used to refer to multiple and different plants. This is due to the fact that these texts were composed in different

periods of time and geographical spaces. To quote the words of Dominik Wujastyk ‘it is inevitable that some plants fell out of usage, were hard to find in new settlements, were mistaken for similar species, or were deliberately switched by opportunist suppliers of bazaar’.²³¹ However, it is interesting to see how over the time a complex literature of botanical thesauri was created ‘in which plants are grouped by name and medical function. Often, a substitute plant either adheres to the features of the known appearance of the forgotten plant, or else has similar medical effects (whether in traditional or biometrical terms)’.²³²

Through a comparison with the Sanskrit and Khotanese text of the *Siddhasāra* and the *Jivakapustaka*, I have tried to identify some of the plants occurring in the *Piṇḍasāstra*. In some cases, the Khotanese borrowed the Sanskrit term, as for instance in the case of LKh. *kaṇḍārya*, a loanword from Skt. *kaṇṭakārakā* (*Solanum jacquinii* Willd.). Loanwords can also come from other languages, e.g. Tibetan, as in the case of LKh. *tharka* from Tib. *star ka* ‘walnut’.²³³ In other cases, plants have a Khotanese name, whose meaning is sometimes otherwise known (e.g. LKh. *hīnāā-* corresponding to Skt. *surasā*), while in other cases it is still obscure. Noteworthy is the explanation given in § 117, where the nature of the probably indigenous botanical term *ahi* is glossed by the Skt. loanword *dāttā* (Skt. *dantī*, *Baliospermum solanifolium* Burm.): *ahi : ṣi’ vq dāttā* ‘*ahi*-plant, that is wild croton’.

5.3 *Piṇḍasaptaka and the Piṇḍasāstra*

As mentioned above, the *Piṇḍasāstra* shares similar characteristics with the Late Khotanese text contained in the fol. 100 of the Ch. ii.002, the *Piṇḍasaptaka*. It is worth noticing the use of fixed phrases, which are absent in the Khotanese *Siddhasāra* but have matches in the *Piṇḍasāstra*, such as *thanjāñā ysūñāñā* ‘it must be taken out (and) strained’ (PiŚ §§ 8, 99; 100r5) or *paskyāṣṭā hā tcirai* ‘(the essence) must be put back (into the vessel)’ (PiŚ §§ 6, 8; 100v1). Noteworthy is also the use of the technical words *ahā-* and *jsahāra-* to describe the abdominal area. Both terms occur solely in the *Piṇḍasāstra* and the fol. 100 and they most likely refer to the ‘stomach’ (*ahā-*) and the abdomen (*jsahāra-*) of the patient. Furthermore, as

²³¹ Wujastyk 2003a: xxxv-xxxvi.

²³² Wujastyk 2003a: xxxvi.

²³³ Emmerick 1985: 306.

Emmerick pointed out in his article on the *Jīvakapustaka*²³⁴, terms of measure like *śiṅga-* or *śaṅga-*²³⁵ are frequently used in the JP, PiSa, and PiŚ, while they are absent in the most famous Khotanese *Siddhasāra*.

6. Notes on the Khotanese text

The entire text of the *Piṅḍaśāstra* has been divided into chapters and each paragraph has been consecutively numbered, in order to have a reference system for the commentary and glossary. In each prescription the ingredients have been numbered progressively in both Khotanese text and translation. In the English translation medical and technical terms, such as names of ingredients, diseases, or verbs related with the preparation of the remedy, are followed by the Sanskrit corresponding word within brackets. The Sanskrit correspondences are mainly based on the comparison with the Khotanese and Sanskrit *Siddhasāra*, with the exception of a few cases where the Sanskrit parallel word is provided by other sources (e.g. *Jīvakapustaka*). Since the corresponding words may be various, only the three most frequent have been quoted in the translation. In the glossary parallel terms are differentiated from loanwords, the origin of which is indicated between square brackets. The aim is to facilitate the possible identification of the source materials of the *Piṅḍaśāstra*. Concerning the botanical names of the components, I opted for Emmerick's approach of employing common language terms in both the translation and the glossary, a choice that was influenced also by the text's style.²³⁶ A list of botanical names for plants with clearer identification is furnished below. In cases where identification is uncertain or not possible, the name of the medicinal plant remains untranslated in both texts and glossary.

The translation is kept as literal as possible, in order to show the style of this Khotanese medical text. At times, the context of the text may complicate the understanding of allusions to specific illnesses or symptoms. It is likely that these theories or ideas were clear to the physicians of the time, who might have benefited from commentaries while reading and composing these type of texts. To clarify the meaning of phrases that may appear fragmentary

²³⁴ Emmerick 1979a: 237.

²³⁵ Cf. the commentary for the meaning of these two words.

²³⁶ Emmerick 1982: 8.

in translation, additional words have been inserted in brackets. The rendering of some specific passages that I am presenting here constitutes my own interpretation, but alternative interpretations may also be plausible. From §§ 1-21a and 41b-77 I followed Emmerick's unedited translation, adapting when necessary the phraseology. The passages that diverge substantially from Emmerick's interpretation have been highlighted in the footnotes.

6.1 Conventions in the critical apparatus

The edition has the following conventions:

[...] restoration of a lacuna;

[+ +] conjectured number of *akṣaras* in a lacuna;

[-]a consonant base broken out or not visible;

[[...]] deletion in the ms;

<...> editor's supplement where the ms has no lacuna;

{...} editor's deletion;

*... editor's emendation; the ms reading will be found in the apparatus;

(...) editor's additions in the translation;

Bailey's reading of the Khotanese text has been noted in the critical apparatus with fn. 'Bailey' and is based on his *Khotanese Texts* 3.17-19 (Ch. 00265) and 82-93 (P 2893). Likewise, Skjærvø's reading has been noted with fn. 'Skjærvø' and is based on his *Khotanese Manuscripts from Chinese Turkestan* (2002).

Manuscript punctuation has been noted by . : and double colon sign :: (indicating the conclusion of the paragraph), each preceded by a space. Occasionally, the : sign appears adjacent to a syllable, in which case it holds phonetic value.

TEXT AND TRANSLATION

FIRST CHAPTER: POULTICES FOR THE EYES

§ 1 (P 2893.32)

.. *viña ttā hva hva bisūñāṃ āchāṃ va piṇḍā hvañāre u yauga* :: –

Now the poultices (*piṇḍaka*) and prescriptions (*yoga*) for various diseases (*gada, roga*) are explained separately to you.

§ 2 (P 2893.33-34)

.. (1) *halīrai* . (2) *vihīlai* . (3) *aumalai* . *hamaṃga vīstāñā* . *nauka ārāñā* (4) *mākṣīna paheṛāñā*²³⁷
saṃdvena tciṃñā rāhā' jidā ::

(1) Chebulic myrobalan (*harītakī*), (2) belleric myrobalan (*vibhītaka*), (and) (3) emblic myrobalan (*āmalaka, āmalakī, dhātrī*) must be put in equally, ground finely, and moistened (*bhāvita*) with (4) honey (*mākṣika*). It removes ((°)*śudh*, (°)*han*, *hṛ*) pain in the eye (*akṣi*) due to a combination (*saṃnipāta*) (of the three *doṣas*).

§ 3 (P 2893.34-35)

²³⁷ Bailey: *paheṛāñā*.

(1) *phaja-vaha*²³⁸ *pau* . (2) *hauṣka gūra* . (3) *kuṃjsa* . (4) *būysīṅṅa pī* . *hamamṅa vīstāṅṅa*²³⁹ . *u kūtāṅṅa ṣi' peṅḍai*²⁴⁰ *tciṅṅa baṅṅāṅṅa* ::

(1) Onion cooked in glowing coals, (2) dry (*śuṣka*) grapes (*drākṣā*, *mṛdvikā*), (3) sesame (*tila*), (4) goat (*chāga*) fat (*medas*) must be put in equally and be pounded (*kuṭṭ*). This poultice (*piṅḍaka*) must be tied on the eye (*akṣi*).

§ 4 (P 2893.35-40)

*khu beva jsa tciṅṅā*²⁴¹ *rāha' hame ṣi' pe'sā' āphiḍe tciṅṅāṅṅā*²⁴² *vī hāṅṅe *straha makauṭe*²⁴³ *hamāre garkhye drā-masi phām*²⁴⁴ *vaṣṭe . jsinūṅṅ jsa*²⁴⁵ *ni vījseṣḍe .*

ṣai' va peṅḍai . (1) *sauthara spyakā* . (2) *bā ttīma* . **hamamṅa*²⁴⁶ *vīstāṅṅa* . (3) *tīlaka hā haumai vimathāṅṅa* . *hu'galakā hā ṣe' peṅḍai padīmāṅṅa*²⁴⁷ . *ttamṅalakaṅṅa pe'makaṅṅa nūṣṭyāṅṅa*²⁴⁸ . *grāmakā kacau*²⁴⁹ *ysai ysai*²⁵⁰ *u pa'sā tceṅṅa niśāṅṅa jatte* ::

When pain occurs in the eye (*akṣi*) due to wind (*vāta*), it is disturbed (*duṣṭa*) in the evening (*nākta*, *nīśā-mukha*, *sāyāhna*), the eyelids on the eyes (*akṣi*) become stiffly closed (*mukula*)

²³⁸ Bailey: *phaja vaha*.

²³⁹ Bailey: *vīstāṅṅa*.

²⁴⁰ Bailey: *paiṅḍai*.

²⁴¹ Bailey: *tciṅṅa*.

²⁴² Bailey: *tciṅṅāṅṅā*.

²⁴³ *hāṅṅe *straha makauṭe* for ms *hāṅṅe stra makauṭe* (Emmerick). Bailey: *hā nestra-makauṭe*.

²⁴⁴ Bailey: *drāma siphām*.

²⁴⁵ *jsinūṅṅ* cf. *jsiṅṅā* § 8.

²⁴⁶ *hamamṅa* for ms *hamam* (Bailey).

²⁴⁷ *haumai vimathāṅṅa* . *hu'galakā hā ṣe' peṅḍai padīmāṅṅa* cf. *hāmai vamathāṅṅā ṣi' piṅḍai padīmāṅṅa hu'gā* l. 263.

²⁴⁸ *pe'makaṅṅa nūṣṭyāṅṅa* cf. *pe'ma jsa nūṣṭyāṅṅā* § 70.

²⁴⁹ *grāmakā kacau* cf. *grrām grām* § 5, 6, 55, 68, 70, 72, 109, 128.

²⁵⁰ Bailey: *ysaiysai*.

(and) heavy, there remains (*sthā*) dust the size of a hair (and) therefore one does not see in detail²⁵¹.

This is the poultice (*piṇḍaka*) for that: (1) fulsee flower (*dhātakī*), (2) dill (*śatapuspā*) must be put in equally, (3) a little of wheat flour (*kaṇikā*)²⁵² must be kneaded (*vimath*) into it. This poultice (*piṇḍaka*) must be made soft, must be wrapped (*ābaddha*) in thin woollen cloth, (and while) somewhat warm (*uṣṇa*) it must be put in the eye (*akṣi*) in the morning (*pūrvāhṇa*, *prātar*) and evening (*nākta*, *nīśā-mukha*, *sāyāhna*). It will be cured (*sidh*, *sukhī bhū*).

§ 5 (P 2893.40-43)

*khu pettana u hūṇa āphārā va tciṃṇa rāha' haṃe ṣa' śva' haḍā āpheḍe . tciṃmañī hemjā hamāre .
ysīdaurgā vījaiṣḍe*

*ṣi' va peṇḍai . (1) halīrai . (2) vihīlai . (3) aumalai . (4) duma-hauṣṭa gūra . (5) kūṃjśa .
hamamṅa vīśtāṇa . kūṭāṇa . (6) śvīdana peṇḍai pāche . grrām grām parye śva haḍā tciṃna nīśāṇā
jatte ::*

When pain occurs in the eye (*akṣi*) due to bile (*pitta*) and on account of the disturbance of the blood (*asra*, *rakta*, *śoṇita*), it is disturbed (*duṣṭa*) at midday, his eyes (*akṣi*) become red, (and) he sees (things) yellowish.

This is the poultice (*piṇḍaka*) for that: (1) chebulic myrobalan (*harītakī*), (2) belleric myrobalan (*vibhītaka*), (3) emblic myrobalan (*āmalaka*, *āmalakī*, *dhātrī*), (4) smoke-dried (*śuṣka*) grapes (*drākṣā*, *mṛdvīkā*), (5) sesame (*tila*) must be put in equally, must be pounded (*kuṭṭ*), (and) the poultice (*piṇḍaka*) must be cooked (*pac*, *śṛta*, *svinna*) with (6) milk (*kṣīra*). (While it is) quite warm (*uṣṇa*), when midday has passed, it must be inserted into the eye (*akṣi*). It will be cured (*sidh*, *sukhī bhū*).

§ 6 (P 2893.43-50)

²⁵¹ 'in detail': differently Emmerick.

²⁵² 'a little of wheat flour': differently Emmerick.

cu śilīṣuṃṇā jsi tcimñā rāha' hame ṣi' ysai ysai²⁵³ āpheḍe tcimaññī garkhyā haṃāre u kyahāre .
hauvi²⁵⁴ vī ṣṣaidā . drāmī herā haṃa sā caṃbūḷa maṃ ṣtāre . āṣkī jsāve

ṣai' va peṇḍai (1) kuṃjsa . (2) kuṃbā . sā sā hāda nauka ārāññā . u ttī (3) ysīdā spyē sā
hāḍe . nauka kuṭāññā²⁵⁵ . drai vasīya uci jsa jṣā'ñāñā . daṃdā khu²⁵⁶ ra va śau vasī harstā ttī pe'²⁵⁷
ysūñāñā . u paskyāṣṭā hā tcirai . ṣi' kuṃjsa . kuṃbā . hā tcerai . ṣi' hu'gā peṇḍai pāchai . drai
haḍā vaṣṭā ysai ysai²⁵⁸ u pe'śā' grām grām dasau jūna tcimñā nīśāññā jatte ::

When pain in the eye (*akṣi*) occurs due to phlegm (*śleṣman*), it is disturbed (*duṣṭa*) in the morning (*pūrvāhṇa*, *prātar*), his eyes (*akṣi*) become heavy and itch, they cling to the eyelids²⁵⁹, such a thing occurs to him: '(Things) are disturbed for me.' He becomes tearful.

This is the poultice (*piṇḍaka*) for that²⁶⁰: (1) sesame (*tila*) (and) (2) linseed (*atasī*) must be finely ground, but one by one²⁶¹, and then (3) the yellow flowers (*puṣpa*) must be finely pounded (*kuttī*), but alone,²⁶² and (the whole) must be boiled with three *vasīyas* of water (*ambu*, *jala*, *vāri*) until (only) one *vasīya* remains there. Then the essence²⁶³ (remaining) must be strained and be put back into (the vessel). Sesame (*tila*) (and) linseed (*atasī*) must be put in. The soft poultice (*piṇḍaka*) must be cooked (*pac*, *śrta*, *svinna*). For three days it must be inserted into the eye (*akṣi*) while quite warm (*uṣṇa*) ten times morning (*pūrvāhṇa*, *prātar*) and evening (*nākta*, *nīśā-mukha*, *sāyāhna*). It will be cured (*sidh*, *sukhī bhū*).

²⁵³ The second *ysai* is written below the first with a caret above. Bailey: *ysaiysai*.

²⁵⁴ Bailey: *hauvi*.

²⁵⁵ Bailey *kuṭāññā*.

²⁵⁶ Bailey: *khū*.

²⁵⁷ Emmerick: *pe'śā'* for *ms pe'*.

²⁵⁸ The second *ysai* is written below the first with a caret above. Bailey: *ysaiysai*.

²⁵⁹ 'to the eyelids': differently Emmerick.

²⁶⁰ 'for that': differently Emmerick.

²⁶¹ 'be finely ground, but one by one': differently Emmerick.

²⁶² 'but alone': differently Emmerick.

²⁶³ 'Then the essence': differently Emmerick.

§ 7 (P 2893.50-54)²⁶⁴

*cu*²⁶⁵ *drayau dūṣyau' jsa tci'ña rrāhā' haṃe . ṣai' va yaugä . ttriphala . (1) halīrai . (2) vihīle . (3) aumalai . vīnau gachāḱāṃ śā śā mācāṃgye nauka kūṭāñā . drai vasīya ūcä jsi jṣā'ñāñä*²⁶⁶ *khu*²⁶⁷ *ra va śau vasī harśtā ysūñāñä. na āṇa hā*²⁶⁸ *dvī prūyi (4) maṃgārā gvīha' rūṃ tcerai . hauda khaśa' pe'śā' khāśāñä jatte . ::*

When pain in the eye (*akṣi*) occurs due to the three *doṣas* (*doṣa*), this is the prescriptions (*yoga*) for it: the three fruits (*triphala*) (namely) (1) chebulic myrobalan (*harītakī*), (2) belleric myrobalan (*vibhītaka*), (and) (3) emblic myrobalan (*āmalaka*, *āmalakī*, *dhātrī*), without (their) seeds (*bīja*) – one dram of each must be finely pounded (*kuṭṭ*), (the whole) must be boiled with three *vasīyas* of water (*ambu*, *jala*, *vāri*) until (only) one *vasīya* remains there, (and the preparation) must be strained. Two *prūyas* of (4) old (*purāna*) cow oil (*ghṛta*) must be put in from below (*adhas*). Seven drinks (*pāna*) (of this preparation) must be drunk in the evening (*nākta*, *nīśā-mukha*, *sāyāhna*). It will be cured (*sidh*, *sukhī bhū*).

§ 8 (P 2893.54-67)

*ṣi' būri tciṃ'ñāṣṭā rūṃ va arva jsāve . (1) vāṃṃinai rūṃ śā prūye . (2) aviṣgī'nai rūṃ śā prūye . (3) gvīha' <rrūṃ>*²⁶⁹ *dvī prūye . (4) gūrvāṃ gichanāṃ mijsāḱāṃ jsa rūṃ dvī prūye . (5) haryāsā kuṃjśamṇa*²⁷⁰ *ruṃ śau śiṃgä . (6) kapūra hālai akṣarā . (7) kuṛkāṃ śau akṣari . (8) [...]* ²⁷¹*yausa hālai akṣari . (9) ciḱāṃ būśāñai śā mācāṃgye . (10) haṃa-ysā*²⁷² *śikarā śau akṣä . (11) nīra*

²⁶⁴ Cf. § 2.

²⁶⁵ Bailey: *cū*.

²⁶⁶ *drai vasīya ūcä jsi jṣā'ñāñä* cf. § 5.

²⁶⁷ Bailey: *khū*.

²⁶⁸ Bailey: *āṇahā*.

²⁶⁹ *gvīha' <rrūṃ>* for ms *gvīha'*.

²⁷⁰ Bailey: *kuṃjāṇa*.

²⁷¹ Before *yausa hālai akṣari* the ms has the words *yausa śau akṣarā hālai* deleted.

²⁷² Bailey: *haṃa ysā*.

lavaṅgā . dvī mācāṅgye . (12) mahābunḅjā śau sirā . bakā kūṭāñña . drai haṁḁkā . ūci jsā jṣā'ñāññā . daṁḁā khu²⁷³ ra va śau haṁḁkā harśtā .

ysūñāññā paskyāṣṭā ṣi' kaṣā' hāñña tcirā . *kaṣā'ñña²⁷⁴ ciṁgāṁ būsāñnai . kurkāṁ . lavagā . haṁṣā jṣā'ñāññā . daṁḁā khu²⁷⁵ ra ruṁ harśtā . khu²⁷⁶ naysdā-vahā' haṁe²⁷⁷ . ttī hā kapūrā . yausa . śikara tcirai . khu²⁷⁸ śau dva jūṁ haṁṣā jṣā'ñāññā . ysūñāññā . pe'sā' kṣi' kaṁai haysgvā paśāññā . kamalā pāstāṁgā biysaṁjāññā .

tti vā bve'jse . (1) khu beva jsā tcī'meñā āphīrārai jahāre . (2) kaṁala rrāhā' jidā . (3) khu²⁷⁹ tcaīme'ñā ṣṣaidā . khu²⁸⁰ ttī jsīññā ni vijsyā²⁸¹, myāṁ ttira vīña jimḁā . bisūṁ va śira īṁḁā ::

This oil (*ghṛta*) for the eye (*akṣi*) goes there as medicament: (1) one *prūya* of almond (Nadkarni *vātāma*) oil (*ghṛta*), (2) one *prūya* of pistachio nut (*abhiṣuka*) oil (*ghṛta*), (3) two *prūyas* of cow oil, (4) two *prūyas* of oil (*ghṛta*) from the ground marrow (*bīja*) of plantains (*moca*), (5) one ounce (*prastha*) of oil (*ghṛta*) from black (*asita*, *kṛṣṇa*) sesame (*tila*), (6) half an *akṣa*²⁸² of camphor (*karpūra*), (7) one *akṣa* of saffron (*kuṅkuma*), (8) half an *akṣa* of musk (*kastūrī*), (9) one dram of perfume of the Chinese, (10) one *akṣa* of uniform sugar (*śarkarā*, *sitā*), (11) two drams of clove (*lavaṅga*) water (*nīra*), (12) one ounce of liquorice plant (*madhuka*, *yaṣṭīmadhu*) must be pounded (*kuṭṭ*) small (and) be boiled with three bowls of water (*ambu*, *jala*, *vāri*) until (only) one bowl remains there.

It must be strained. The decoction (*kaṣāya*, *kvātha*, *sva-rasa*) must be put back into the vessel. In the decoction (*kaṣāya*, *kvātha*, *sva-rasa*) perfume of the Chinese, saffron (*kuṅkuma*),

²⁷³ Bailey: *khū*.

²⁷⁴ **kaṣā'ñña* for ms *kaṣā'ñña* (Luzziatti).

²⁷⁵ Bailey: *khū*.

²⁷⁶ Bailey: *khū*.

²⁷⁷ Bailey *hame*.

²⁷⁸ Bailey: *khū*.

²⁷⁹ Bailey: *khū*.

²⁸⁰ Bailey: *khū*.

²⁸¹ *khū ttī jsīññā ni vijsyā* cf. § 4.

²⁸² The use of *akṣarā*, *akṣari* here, presumably for the Sanskrit unit of measure *akṣa*, is surprising.

(and) cloves (*lavaṅga*) must be boiled together until (only) oil (*ghṛta*) remains. When it is nearly cooked, then camphor (*karpūra*), musk (*kastūrī*), (and) sugar (*śarkarā, sitā*) must be put in. When it boils together once (or) twice, it must be taken away (from the fire) (and) strained. In the evening (*nākta, nīśā-mukha, sāyāhna*) six drops must be inserted into the nostrils (*nāvana*). The head (*mūrdhan*) must be held upside down.

And these are its virtues. (1) When the eyes (*akṣi*) are disturbed (*duṣṭa*) by wind (*vāta*), they will be healed (*sidh, sukhī bhū*). (2) It removes headaches (*śiro-ṛti*). (3) When the eyes (*akṣi*) cling so that one then does not see in detail²⁸³, it removes such great pains in the middle (of the eye). It does good for all (three) of these (disorders).

²⁸³ 'in detail': differently Emmerick.

SECOND CHAPTER: POULTICES FOR THE STOMACH

§ 9 (P 2893.67)

tti vā khāysāñña piṇḍā .

The following (are) poultices (*piṇḍaka*) for the stomach (*āmāsaya*):

§ 10 (P 2893.67-70)

(1) āḍa hāmai . (2) vi'yaji . (3) rājā nāmva²⁸⁴ (4) bi'hā'ya . haṃmaṅgā viśtāññā . nauka ārāññā . (5) mauna pāchai . biṃḍā (6) halīrai parkūññā²⁸⁵ . darye jsahāra nīśāññā . petta śliṣmī khāysāññā u ahañña āma naṣpaśde' ::

(1) Barley semolina (*saktu*) (or) wheat flour (*kaṇikā*)²⁸⁶, (2) *vi'yaji*, (3) salt (*lavāna*) from the plains (*romaka*), (4) *bi'hāya* must be put in equally (and) ground finely. (The whole) must be cooked (*pac*, *śṛta*, *svinna*) with (5) liquor (*mada*), sprinkled on a (severed) (6) chebulic myrobalan (*harītakī*), (and) the belly of the split (myrobalan) must be placed (on the stomach). It expels bile (and) phlegm (*śleṣman*) in one's stomach (*āmāsaya*) and undigested (*āma*) (food) in the belly.

§ 11 (P 2893.70-73)

(1) haryāsa sacha (2) mauna pāchai . śi' peṇḍai ura biṃḍā nīśāññā paṣkāśā jiṃḍā ::

paḍā śā ṣavā khāysāñña (1) hāma śīya ttrahe baññā . u biṃḍā (2) śīya namva sauyāñña . u ttī ustaṃ śi' peṇḍai baññā ::

²⁸⁴ Bailey: *rājā-nāmva*.

²⁸⁵ Bailey: *parkūññā*.

²⁸⁶ 'Barley semolina (or) wheat flour': differently Emmerick.

(1) Black sida (JP *nāga-balā*) must be cooked (*pac, śṛta, svinna*) with (2) liquor (*mada*). This poultice (*piṇḍaka*) must be placed on the belly. It will remove ((°)*śudh*, (°)*han*, *hṛ*) swelling (of the stomach) (*ādhmāna, āhāna*).

First for one night (*uṣitaṃ*) (1) raw white radishes (*mūlaka*) must be tied (*bandh*) on the stomach (*āmāśaya*) and thereon (2) white salt (*lavaṇa*) must be rubbed and then finally this poultice (*piṇḍaka*) must be tied on (*bandh*).

§ 12 (P 2893.73-75)

(1) *bāṇva śavarā . dva bāga . (2) haṃārnai phaura dva bāga . (3) huṣkyā ttrahe dva bāgā . (4) rrājā namva*²⁸⁷ *dva bāgā . (5) āḍa hāmai śau bāgā . nauka āṛāññā hatsā . peṇḍai padīmāññā khāysāñña āchā jīṃḍā . haśā u dūvarā ::*

(1) *bāṇva śavarā* – two portions (*bhāga*); (2) *haṃārnai phaura* – two portions (*bhāga*); (3) dry radishes (*śuṣka-mūlaka*) – two portions (*bhāga*); (4) salt (*lavaṇa*) of the plains (*romaka*) – two portions (*bhāga*); (5) (and) one portion (*bhāga*) of barley semolina (*saktu*) (or)²⁸⁸ wheat flour (*kaṇikā*) must be finely ground together. A poultice (*piṇḍaka*) must be made. It will remove ((°)*śudh*, (°)*han*, *hṛ*) diseases (*gada, roga*) in the stomach (*āmāśaya*), swelling (*śopha*), and dropsy (*udara*).

§ 13 (P 2893.75-78)

(1) *ahaysnāva ysaramṃsqa . (2) būysūññā padī ṣū hīya ranūṣkā . (3) mau hīya purgā . (4) rūśāḍā . [[pa]]*²⁸⁹ *haṃagā vīśtāñña . hatsā kūṭāññā . peṇḍai padīmāñña . bi[[dai]]dai*²⁹⁰ (5) *śī bū' parkūññā . khāysāñña baññāññā . haśā tcabe'je ::*

²⁸⁷ Bailey: *rājā-namva*.

²⁸⁸ ‘barley semolina’: differently Emmerick.

²⁸⁹ Uncertain. Bailey: *rūśāḍā [sa]* with fn. ‘Unclear’.

²⁹⁰ Uncertain. Bailey: *bi[sai] dai* with fn. ‘Blurred sai’.

(1) Unwashed safflower (JP *kusumbha*), (2) the scrapings of burnt goat (*chāga*) horn (*viṣāṇa*), (3) the lees of liquor (*mada*), (4) (and) barley flour (*yava-kalka*) must be put in equally, be pounded (*kuṭṭ*) together, (and) a poultice (*piṇḍaka*) must be made. (5) White perfume (*kaṭabhīśvetā, kunda*) must be sprinkled on it. It must be tied (*bandh*) on the stomach (*āmāśaya*). It will disperse swelling (*śopha*).

§ 14 (P 2893.78-82)

(1) *aysāya* . u (2) *guṇāṃ* u (3) *gīchāṇā* *mījsāka* . (4) *hūraṣṭā* . (5) *śī śaśvāṃ* . (6) *hīnā* . (7) *ganāṇai bā tīma* . (8) *āra* . (9) *kumbā* . (10) *kuṃjsa* . (11) *kuṣṭā* . (12) *aśvagandha* . (13) *bara śīje* . (14) *īraṇde* . *bīśa haṃmaṅgā vīstāñā* . *nauka kūṭāñā* . *peṇḍai-t-ūṃ jsa padīmāñā* . *uci jsa pāchai* . *khāysāñā hāma bāva paśtā* . *haśā jimḍā* . u *bāva śīlīṣuma jsa²⁹¹ āchā u phāhā* ::

(1) *aysā'ya* and marrow (*bīja*) of (2) *guṇās* and (3) plantains (*moca*), (4) orrisroot (*pauṣkara*), (5) white mustard ((*śveta*-)*sarṣapa, siddhārtha*), (6) chaste tree (*surasā*), (7) fetid dill²⁹² (*śatapušpā*), (8) sweet flag (*vacā*), (9) linseed (*atasī*), (10) sesame (*tila*), (11) costus (*kuṣṭha*), (12) winter cherry (*aśvagandhā*), (13) jujube (*kola, bādara*), (14) castor-oil plant (*eraṇḍa*)

§ 14 (P 2889.5-8)

(1) *aysā'ya* (2) *gāṇā* (3) *gīchanā mījsāka* (4) *hūraṣṭā* (5) *śī śaśvāṃ* (6) *hīnā²⁹³* (7) *ganāṃ* *bā* (8) *āra* . (9) *kāmbā* . (10) *kūjsa* . (11) *kūṣṭa* (12) *aśvagadha* (13) *bara śīje* . (14) *īrade tta hamaga śtāka u paiṇḍe pāchai* [*×*]²⁹⁴ *jsa khāysāñā bañāñā* .

(1) *aysā'ya*, (2) (marrow) of *guṇās*, (3) marrow of plantains (*moca*), (4) orrisroot (*pauṣkara*), (5) white mustard ((*śveta*-)*sarṣapa, siddhārtha*), (6) chaste tree (*surasā*), (7) fetid dill (*śatapušpā*), (8) sweet flag (*vacā*), (9) linseed (*atasī*), (10) sesame (*tila*), (11) costus (*kuṣṭha*), (12) winter cherry (*aśvagandhā*), (13) jujube (*kola, bādara*), (and) (14) castor-oil plant (*eraṇḍa*).

²⁹¹ Bailey: *śīlīṣumajsa*.

²⁹² ‘fetid dill’: differently Emmerick.

²⁹³ Bailey: *hīnāṃ* (KT 3 78.6).

²⁹⁴ Uncertain. Bailey: *×* with fn. ‘Unclear syllables’ (KT 3 78.8).

must all be put in equally (and) be pound (*kutṭ*) finely, (and) a poultice (*piṇḍaka*) must be made with them. It must be cooked (*pac*, *śṛta*, *svinna*) with water (*ambu*, *jala*, *vāri*). It matures (*pac*, *śṛta*, *svinna*) a raw root (*mūla*) in the stomach (*āmāśaya*), removes ((^o)*śudh*, (^o)*han*, *hr*) swelling (*śopha*) and diseases (*gada*, *roga*) due to wind (*vāta*) (and) phlegm (*śleṣman*), and cough (*kāsa*).

These are equally necessary and a poultice (*piṇḍaka*) must be cook with ... It must be tied on the stomach (*āmāśaya*).

THIRD CHAPTER: POULTICES FOR SWELLINGS

§ 15 (P 2893.82-83)

ttī vā haśi va peṇḍā .

The following (are) poultices (*piṇḍaka*) for swelling (*śopha*).

§ 16 (P 2893.83)

(1) huṣkyi ttrahe . (2) kuṃjsārgyā . (3) mauna pāche . ṣī' sālye' haśa va peṇḍai ::

(1) Dry radishes (*śuṣka-mūlaka*) (and) (2) sesame oil (*taila*) cakes (*piṇyāka*) must be cooked (*pac, śṛta, svinna*) with (3) liquor (*mada*). This (is) a poultice (*piṇḍaka*) for swelling (*śopha*) of the *sālye'*.

§ 17 (P 2893.83-85)

(1) aysā'yā nauka kuṭāññā . uci jsā jṣā'ññāññā . (2) hāmai hā vamathāññā . ṣe' peṇḍai sādā hasve jīṃdā ::

(1) *aysā'ya* must be pounded (*kuṭṭ*) finely (and) be boiled with water (*ambu, jala, vāri*). (2) Wheat flour (*kaṇikā*) must be kneaded (*vimath*) (into it). This poultice (*piṇḍaka*) removes ((°)*śudh*, (°)*han*, *hṛ*) cold (*śīta*) swellings (*śopha*).

§ 18 (P 2893.85-87)

(1) jsanaspāra . (2) j(am)b(a)()drre²⁹⁵ . (3) huṣkyi ttrahe . (4) bāṇva ṣavarā . (5) ba'hauya . hamamṅā vīstāññā . nauka ārāññā . (6) mauna u (7) namvena pāchai haśa va peṇḍai ::

²⁹⁵ *j(am)b(a)()drre* for ms *jbdrre*.

(1) *jsanaspāra*, (2) the three *jambū* (*jambūtrayaṃ*), (3) dry radishes (*śuṣka-mūlaka*), (4) *bāṇva* *ṣavarā*, (5) *ba'hauya* must be put in equally (and) be ground finely. A poultice (*piṇḍaka*) for swelling (*śopha*) must be cooked (*pac*, *śṛta*, *svinna*) with (6) liquor (*mada*) and (7) salt (*lavaṇa*).

§ 19 (P 2893.87-88)

(1) *ṣvīdana* (2) *rūsādā* . *paheṛāññā* . (3) *āḍa gūrva* <...>²⁹⁶ . *ā vā khāhāṃ hīye ūci jsa heṃje haśā bidā nīsāññā tcabe'je* ::

(2) Barley flour (*yava-kalka*) must be moistened (*bhāvita*) with (1) milk (*kṣīra*). (3) Barley semolina (*saktu*)²⁹⁷ < . > or alternatively with the water (*ambu*, *jala*, *vāri*) from springs (and) must be put on a red (*rakta*) swelling (*śopha*). (This) will disperse (it).

§ 20 (P 2893.88-91)

(1) *kuṃjsa* . (2) *kumbā*²⁹⁸ . (3) *ysarūṃ māṃgā* . (4) *rīysū* . (5) *ysīdā spyē* . (6) *mahābumji* . *hamāṃgā vīśtāñña* . *naukā āṛāññā* . (7) *ṣvīdina peṇḍe pāche* . (8) *gvīha' rūṃna* . *gūmalyāññā* . *saṃdveṃna haśā jiṃdā* . *bina hūñā vasūje* ::

(1) Sesame (*tila*), (2) linseed (*atasī*), (3) green beans (*maudga*), (4) rice (*taṇḍula*, *śāli*), (5) the yellow flowers (*pīta-puṣpa*), (and) (6) liquorice plant (*madhuka*, *yaṣṭimadhu*) must be put in equally, be ground finely, (and) the poultice (*piṇḍaka*) must be cooked (*pac*, *śṛta*, *svinna*) with (7) milk (*kṣīra*) (and) mixed with (8) cow oil (*ghṛta*). It will remove ((°)*śudh*, (°)*han*, *hṛ*) swellings (*śopha*) due to a combination (*saṃnipāta*) (of the three *doṣas*) (and) it will purify blood (*asra*, *rakta*, *śoṇita*) vitiated by wind (*vāta*).

§ 21 (P 2893.91a + Ch. 00265.1-2)

²⁹⁶ Gap posited by Luzziatti.

²⁹⁷ 'Barley semolina': differently Emmerick.

²⁹⁸ Bailey: *kumbā*.

(1) *mākṣīṇa* (2) *vasva uysmä paḥerāñä* . *ā vā* (3) *krremḡṭñe āha'na* (4) *ārrdä māmḡä paḥerāñä* .
hemje haśä tcabe'jākä peṇḋai ::

(2) Pure clay must be moistened (*bhāvita*) with (1) honey (*mākṣika*), or alternatively, (4) ground beans (*maudga*) must be moistened (*bhāvita*) with (3) a fowl's (*dakṣa*) egg (*aṇḍa*). (This) poultice (*piṇḍaka*) (is) a disperser of red (*rakta*) swelling (*śopha*).

§ 22 (Ch. 00265.2-6)

(1) *īraṇḍe* (2) *kuṃjsa haṃamḡä viśtāñä*²⁹⁹ . *nauka ārāñä* . (3) *ulīñe tcāra jsä peṇḋai padīmāñä* .
paskyāṣṭā hvā'ñāñä . (4) *gurgula bū' u* (5) *halīrai tti hā haṃamḡä*³⁰⁰ *viśtāñä* . *ārāñä* . *hā*
haṃbrrīhāñä . (6) *gvī'hye bīysma jsä paḥerāñä* . *ṣī' peṇḋai āyvāñä* . *u dirye urä biṇḍä nīśāñä* .
dūvarä jīṇḍä u haśä ::

(1) Castor-oil plant (*eraṇḍa*) (and) (2) sesame (*tila*) must be put in equally (and) be ground finely. A poultice (*piṇḍaka*) must be made with (3) camel (*auṣṭra*) fat (*vasā*). Afterwards it must be made dry. (4) Bdellium perfume (*pura*) and (5) chebulic myrobalan (*harītakī*), these must be put in equally, be ground (and) be mixed in. (The whole) must be moistened (*bhāvita*) with (6) cow urine (*go-mūtra*). This poultice (*piṇḍaka*) must be heated and be placed on the bad belly. It will remove ((°)*śudh*, (°)*han*, *hr*) dropsy (*udara*) and swelling (*śopha*).

§ 23 (Ch. 00265.6-8)

(1) *bahau'yä* . (2) *baṇva ṣavarä haṃamḡä viśtāñä* . *haṃtsä kūṭāñä* . *haśä biṇḍä bañāñä* . *heji*
haśä jīṇḍä ::

(1) *bahau'yä* (and) (2) *baṇva ṣavarä* must be put in equally (and) be pounded (*kuṭṭ*) together. (This poultice) must be tied (*bandh*) on the swelling (*śopha*). It will remove ((°)*śudh*, (°)*han*, *hr*) red (*rakta*) swelling (*śopha*).

²⁹⁹ Skjærvø and Bailey: *viśtāñä*.

³⁰⁰ Bailey: *haṃamḡä*.

§ 24 (Ch. 00265.8-11)

(1) *vāṃrāṃ* . (2) *aysā'yä* . (3) *puṣṭarāṇa* . (4) *huṣkyä ttrahe* . (5) *āḍä* . (6) *hāmai* . *biśä haṃaṃgä vīstāñä*³⁰¹ . *nauka ārāñä* . (7) *mauna pāchai* . (8) *yamai rūṃnā gūmalyāñä* . *biṃdai* (9) *sadalūṃ parkūnāñä* . *khāysāñä bañāñä haijā haśä jīṃdä* . *u paṣkāśä* ::

(1) *vāṃrāṃ*, (2) *aysā'ya*, (3) *puṣṭarāṇa*, (4) dry radishes (*śuṣka-mūlaka*), (5) barley semolina (*saktu*), (6) wheat flour (*kaṇikā*) must all be put in equally (and) be finely ground. (The whole) must be cooked (*pac*, *śṛta*, *svinna*) with (7) liquor (*mada*) (and) be mixed with (8) the couple of oils (*ghṛta*). (9) Rock salt (*saindhava*) must be sprinkled on it. (This poultice) must be tied (*bandh*) on the stomach (*āmāsaya*). It will remove ((°)*śudh*, (°)*han*, *hṛ*) red (*aruṇa*, *rakta*) swelling (*śopha*) and swelling (of the stomach) (*ādhmāna*, *āhāna*).

§ 25 (Ch. 00265.11-13)

(1) *śvāñä gūra* . (2) *huṣkyi ttrahe* . *haṃaṃgä vīstāñä* . *kūṭāñä* . (3) *hāmai hā haṃbrrihāñä* . (4) *mauna pāchai khāysāñä bañāñä haśä peṇḍai* ::

(1) *śvāñä gūra* (and) (2) dry radishes (*śuṣka-mūlaka*) must be put in equally (and) be pounded (*kuṭṭ*). (3) Wheat flour (*kaṇikā*) must be mixed in. (The whole) must be cooked (*pac*, *śṛta*, *svinna*) with (4) liquor (*mada*) (and) be tied (*bandh*) on the stomach (*āmāsaya*). (This is) a poultice (*piṇḍaka*) for swelling (*śopha*).

§ 26 (Ch. 00265.13-16)

(1) *puṣṭirāṇa* . (2) *huṣkyä ttrahe* . (3) *haṃga* . *mijsāka* . (4) *āḍä* . (5) *hāmai* . (6) *baṃva ṣavarä* . (7) *rājā namva*³⁰² . (8) *dājsaṃdai* . (9) *aṣṇūha* . (10) *kāṃjsa* . (11) *kāṃbā* . *tta biśä haṃaṃgä vīstāñä naukā ārāñä* (12) *mauna pāchai gūmilyāñä* . *beṃdai* (13) *ārä* . (14) *hūraṣṭi parkūnāñä ṣi' daśāṃgä nāma piṇḍai khāysāñä bañāñä haśä jīṃdä* ::

³⁰¹ Bailey: *vīstāñä*.

³⁰² Skjærvø and Bailey: *rājānamva*.

(1) *puṣṭarāṇa*, (2) dry radishes (*śuṣka-mūlaka*) (3) kernels (*bīja*) of bladder sorrel (*amlavetasa*), (4) barley semolina (*saktu*), (5) wheat flour (*kaṇikā*), (6) *baunva ṣavarü*, (7) salt (*lavaṇa*) from the plains (*romaka*), (8) *dājsaṃdai*, (9) pigeon (*kapota*) dung (*viṣ*), (10) sesame (*tila*), (11) linseed (*atasī*), all these must be put in equally (and) be finely ground. (The whole) must be cooked (*pac*, *śṛta*, *svinna*) with (12) liquor (*mada*) (and) be mixed. (13) Sweet flag (*vacā*) (and) (14) orrisroot (*pauṣkara*) must be sprinkled on it. This poultice (*piṇḍaka*) called Daśāṅga (*daśāṅga*) must be tied (*bandh*) on the stomach (*āmāśaya*). It will remove ((°)*śudh*, (°)*han*, *hṛ*) swelling (*śopha*).

§ 27 (Ch. 00265.16-19)

(1) *huṣkyi ttrahe* (2) *īraṃde . mijsāka*³⁰³ . (3) *mau hīya purga . haṃmagä viśtāññä ārāññä* . (4) *mauna pāchai* . (5) *maṃgārä gvī'ha' rūṃna gūmalyāññä* . *bidai* (6) *kuṣṭi parkūnāññä* . *khāysāñña*³⁰⁴ *baññä haśä jimdä u jsahera vīne* ::

(1) Dry radishes (*śuṣka-mūlaka*), (2) kernels (*bīja*) of the castor-oil plant (*eraṇḍa*) (and) (3) the lees of liquor (*mada*) must be put in equally (and) be ground. (The whole) must be cooked (*pac*, *śṛta*, *svinna*) with (4) liquor (*mada*) (and) be mixed with (5) old (*purāṇa*) cow oil (*ghṛta*). (6) Costus (*kuṣṭha*) must be

§ 27 (P 2889.3-5)

(1) *hauskyä ttrahi* . (2) *īrade mījsāka* (3) *mauva paurgä* < . . . >³⁰⁵ (4) *mauna pāchai* . (5) *magāra gvīha rruṃna gūmalyāññä bede* (6) *kūṣṭä parkū[5]nāññä [×]*³⁰⁶

(1) Dry radishes (*śuṣka-mūlaka*), (2) kernels (*bīja*) of the castor-oil plant (*eraṇḍa*) (and) (3) the lees of liquor (*mada*) < . . . >. (The whole) must be cooked (*pac*, *śṛta*, *svinna*) with (4) liquor (*mada*) (and) be mixed with (5) old (*purāṇa*) cow oil (*ghṛta*). (6) Costus

³⁰³ Skjærvø and Bailey: *mujsāka*.

³⁰⁴ Skjærvø: *khāysāñña*.

³⁰⁵ Gap posited by Luzziatti.

³⁰⁶ Uncertain. Bailey: *[×]* with fn. 'Unclear syllables' (*KT* 3 78.5).

sprinkled on it. It must be tied (*bandh*) on the stomach (*āmāśraya*). It will remove ((°)*śudh*, (°)*han*, *hṛ*) swelling (*śopha*) and pains (*vedanā*) in the belly (*grahaṇī*). (*kuṣṭha*) must be sprinkled on it.

§ 28 (Ch. 00265.19-22)

cu pā hasvīṇḍā śī va piṇḍai . (1) ganūma bīsai (2) kumbā pattevāñā . u āṛāñā . (3) paysāya bisā (4) nāṃji tcerā . u (5) maṃgāra mau hīye purgyāna śī piṇḍai pāchai . (6) maṃgārā gvī'ha rūṃna gūmalyāñā . pāṃ biṇḍā bañāñā . hasvai jīṇḍā ::

When the feet (*pāda*) swell (*śopha*), this is the poultice (*piṇḍaka*) for that. (2) Linseed (*atasī*) must be toasted in (1) wheat (*godhūma*) and be ground. (4) *Nāṃji* must be put into (3) **paysā*- and this poultice (*piṇḍaka*) must be cooked (*pac*, *śṛta*, *svinna*) with (5) lees of old (*purāṇa*) liquor (*mada*), be mixed with (6) old (*purāṇa*) cow oil (*ghṛta*) (and) be tied (*bandh*) on the feet (*pāda*). It will remove ((°)*śudh*, (°)*han*, *hṛ*) swellings.

§ 29 (Ch. 00265.22-24)

(1) īraṇḍāṃ hīye pirā grāmūcā bñāñāñā . (2) kujsavīnai rūṃna gūmalyāñā . biṇḍai (3) sadālūṃ parkunāñā . pāṃ biṇḍā bañāñā hasvai jidā ::

(1) Leaves of castor-oil plants (*eraṇḍa*) must be steeped in warm water, be mixed with (2) sesame oil (*taila*). (3) Rock salt (*saindhava*) must be sprinkled on it. (This) must be tied (*bandh*) on the feet (*pāda*). It will remove ((°)*śudh*, (°)*han*, *hṛ*) swellings.

§ 30 (Ch. 00265.24-25)

(1) *kumjsa* . (2) *ysālva* . (3) *mahābaujā* . (4) *ysīdā spyē* . *hamamṅā*³⁰⁷ *vīstāñā naukā ārāñā* . (5) *ba'hau'ya*³⁰⁸ *jsä paheṛāñā* . *tīñye*³⁰⁹ *haśi jinākā peṇḍai* ::

(1) Sesame (*tila*), (2) Indian barberry (*dārvī, pīta-dāru*), (3) liquorice (*madhuka, yaṣṭimadhu*) (and) (4) yellow flowers (*pīta-puṣpa*) must be put in equally, be finely ground, be moistened (*bhāvita*) with (5) *ba'hau'ya*. (This) poultice (*piṇḍaka*) (is) a remover ((°)*śudh*, (°)*han*, *hṛ*) of swelling (*śopha*) of the skin (*chavi*).

§ 31 (Ch. 00265.25-26)

(1) *śī pau* . (2) *śī bū'* . *hamamṅā vīstāñā* . *hamṭsā kūṭāñā* . (3) *gvī'ha' rūmñā mūrāñā* . *hemje ttaudye haśā*³¹⁰ *bimḍāṣṭi piṇḍai*³¹¹ ::

(1) White onion (and) (2) white perfume (*kunda, kaṭabhī-śvetā*) must be put in equally, be pounded (*kutt*) together, be rubbed with (3) cow oil (*ghṛta*). (This is) a poultice (*piṇḍaka*) (to apply) on red (*aruṇa, rakta*), hot (*uṣṇa, dāha*) swelling (*śopha*).

§ 32 (Ch. 00265.27-29)

(1) *huṣkyā ttrahe* . (2) *mau hīya purga* . (3) *īraṇḍe* . *hamamṅā vīstāñā* . *kūṭāñā {mamṅārā rrū}*³¹² (4) *maunā ṣi' peṇḍai pāchai* . (5) *maṅgārā gvī'hā' rūmna*³¹³ *gūmalyāñā bidai hā* (6) *kuṣṭā parkūnāñā* . *haśā jimḍā huṃa bāva paṣṭā* ::

³⁰⁷ Skjærvø and Bailey: *hamamṅā*.

³⁰⁸ *ya* written below between *hau'* and *jsä* with a caret above. Skjærvø and Bailey: *bahauya*.

³⁰⁹ Bailey: *tī ñye*.

³¹⁰ Skjærvø and Bailey: *haśa*.

³¹¹ Bailey: *piṇḍai*.

³¹² Expunction by Luzziatti.

³¹³ Skjærvø: *rūna*.

(1) Dry radishes (*śuṣka-mūlaka*), (2) the lees of liquor (*mada*), (3) castor-oil plant (*eraṇḍa*) must be put in equally (and) be pounded (*kutṭ*). This poultice (*piṇḍaka*) must be cooked (*pac*, *śṛta*, *svinna*) with (4) liquor (*mada*) (and) be mixed with (5) old (*purāṇa*) cow oil (*ghṛta*). (6) Costus (*kuṣṭha*) must be sprinkled on it. It will remove ((^o)*śudh*, (^o)*han*, *hṛ*) swelling (*śopha*) (and) mature (*pac*, *śṛta*, *svinna*) a undigested wind (*mūla*).

§ 33 (Ch. 00265.29-30)

(1) *svaṃna-gīrai* . (2) *hauskā gūra* . (3) *gvī'ha'*: *rūṃna haṃmaṅgā śtākā* . *kuṭāñā* . (4) *gvī'hye bīysmä jsa paherāñā śi' peḍai hīya ttañā hasā jeṃdā styūda* ::

(1) Red ochre (*kāñcana-gairika*) (and) (2) dry (*śuṣka*) grapes (*drākṣā*, *mṛdvīkā*) are equally necessary with (3) cow oil (*ghṛta*), must be pounded (*kutṭ*) (and) be moistened (*bhāvita*) with (4) cow urine (*go-mūtra*). This poultice (*piṇḍaka*), poured on the skin (*chavi*), will remove ((^o)*śudh*, (^o)*han*, *hṛ*) firm swelling (*śopha*).

§ 34 (Ch. 00265.31-32)

(1) *arūva* . (2) *raustarā* . (3) *kuṃjsa* . (4) *hauskā gūra* . (5) *pī* .³¹⁴ *hamāṅgā vīśtāñā*³¹⁵ . *naukā kūṭāñā* (6) *gvī'ha'* *rūṃna mūrāñā śi' ysūrgā viranāṃ hasā jinākā peḍai* ::

(1) Castor-oil plant (?), (2) mudar (*arka*), (3) sesame (*tila*), (4) dry (*śuṣka*) grapes (*drākṣā*, *mṛdvīkā*), (5) fat (*medas*) must be put in equally, be finely pounded (*kutṭ*) (and) rubbed with (6) cow oil (*ghṛta*). This poultice (*piṇḍaka*) is a remover ((^o)*śudh*, (^o)*han*, *hṛ*) of suppurating swelling (*śopha*) of the wounds (*vraṇa*).

³¹⁴ Bailey: no dot.

³¹⁵ Bailey: *vīśtāñā*.

FOURTH CHAPTER: POULTICES TO APPLY ON THE LIVER

§ 35 (Ch. 00265.32-33)

tti vā jarā bidāṣṭā piṇḍā .

The following (are) the poultices (*piṇḍaka*) (to apply) on the liver.

§ 36 (Ch. 00265.33-34)

(1) būsyaṅga māstai . (2) nīyakā . haṁtsā mūrāṅga biṇḍā hā śakarā parkūṅga u hīśa' āṣkā . jarā biṇḍā baṅgaṅga jatte ::

(1) Goat (*chāga*) buttermilk (*takra*) (and) (2) butter (*navanīta*) must be rubbed together, sugar (*śakarā, sitā*) and drops of *hīśa'* must be sprinkled on (it). (This poultice) must be tied on the liver. It will be cured (*sidh, sukhī bhū*).

§ 37 (Ch. 00265.34-35)

(1) būsyaṅga māstai . u (2) śilājattā haṁtsā haṁbrīṅga kaṅgyā biṇḍā nūṣṭyaṅga jara biṇḍāṣṭā peṇḍai ::

(1) Goat (*chāga*) buttermilk (*takra*) and (2) molten ore (*śilājatu*) must be mixed together, be wrapped (*ābaddha*) on the skin. (This is) a poultice (*piṇḍaka*) (to put) on the liver.

§ 38 (Ch. 00265.35-37)

(1) kuṁjśa . (2) kuṁbā . (3) ysarūṅga maugā . (4) rīysū . haṁmaṅga vīśṭāṅga . kūṅga . ṣvīdana ṣi' peṇḍai pāchai . bidai śakarā parkūṅga hasā jīṇḍā ū ūysaṅga āphārā ::

(1) Sesame (*tila*), (2) linseed (*atasī*) (3) green beans (*mudgaḥ*), (and) (4) rice (*taṇḍula*, *śāli*) must be put in equally (and) pounded (*kutṭ*). This poultice (*piṇḍaka*) must be cooked with milk (*kṣīra*), sugar (*śarkarā*, *sitā*) must be sprinkled on it. It will remove ((°)*śudh*, (°)*han*, *hṛ*) swelling and the disturbance of the breath (*śvāsa*).

§ 39 (Ch. 00265.37-40)

(1) *īraṇḍe* . (2) *tharka mijsā* . (3) *dūma-hauṣṭā gūra* . (4) *kūṃjsa* . (5) *drrāma ttīma* . (6) *ūlīṇa tcāra* . (7) *raustarā* . (8) *būysīṇa pē* . *hamaṅgā vīstāññā nauka kūṭāññā ṣi' piṇḍai haṃbrīhāññā jarā biṃḍā bañāññā . hiṃja hasā jidā u phāhā' :::*

(1) Castor-oil plant (*eraṇḍa*), (2) walnut (JP *akṣoṭa*) kernels, (3) smoke-dried (*śuṣka*) grapes (*drākṣā*, *mṛdvīkā*), (4) sesame (*tila*), (5) pomegranate (*dāḍīma*) seeds, (6) camel (*auṣṭra*) fat (*vasā*), (7) mudar (*arka*), (and) (8) goat (*chāga*) fat (*medas*) must be put in equally (and) pounded finely. This poultice (*piṇḍaka*) must be mixed (and) tied on the liver. It will remove ((°)*śudh*, (°)*han*, *hṛ*) red (*aruṇa*, *rakta*) swelling (*śopha*) and cough (*kāsa*).

§ 40 (Ch. 00265.40-42)

(1) *gūra* . (2) *kūṃjsa* . (3) *hainai caṃḍa* . (4) *rrīysū* . *hamaṅgā vīstāññā nauka kūṭāññā . ṣvīdana pāchai . jarrā biṃḍā khaiya jinākā piṇḍai : ::*

(1) Grapes (*drākṣā*, *mṛdvīkā*), (2) sesame (*tila*), (3) red sandal (*rakta-candana*), (and) (4) rice (*taṇḍula*, *śāli*) must be put in equally, finely pounded (*kutṭ*) (and) cooked with milk (*kṣīra*). (Put) on the liver, (this) poultice (*piṇḍaka*) (is) a remover ((°)*śudh*, (°)*han*, *hṛ*) of ache.

§ 41 (Ch. 00265.42 + P 2893.91b)

(1) *hauṣka gūra* . (2) *rūnai* . (3) *mahābaujā* . (4) *haṃga* . *haṃgā vīstāññā . nauka kūṭāññā . māḥṣī'na paherāññā cu jara strīstā . vara bañāññā ṣai' vasūje ::*

(1) Dry (*śuṣka*) grapes (*drākṣā, mṛdvikā*), (2) Indian madder (*mañjiṣṭhā*), (3) liquorice plant (*madhuka, yaṣṭīmadhu*), (4) bladder sorrel (*amalavetasa*) must be put in equally, finely pounded (*kuṭṭ*), (and) mixed with honey (*mākṣika*). If the liver becomes stiff, (this poultice) must be tied there. It will purify (it).

§ 42 (P 2893.92-95)

(1) *halīrai* . (2) *vihūlai* . (3) *āmalai* . (4) *śī sūmaṇ spyē* . (5) *halaidrā* . (6) *śīlājattā*³¹⁶ . (7) *dūma-hauṣṭā gūra* . *biśa haṃmaṅgā vīśtāññā mākṣīna paḥerāñña* . *jara vī baññāññā* . *phāhiṃ uysānā āphārā jimḍā* ::

(1) Chebulic myrobalan (*harītakī*), (2) belleric myrobalan (*vibhūtaka*), (3) emblic myrobalan (*āmalaka, āmalakī, dhātrī*), (4) white nutmeg flower (*mālatī*), (5) turmeric (*haridrā*), (6) molten ore (*śīlājatu*), (and) (7) smoke-dried (*śuṣka*) grapes (*drākṣā, mṛdvikā*) must all be put in equally (and) moistened (*bhāvita*) with honey (*mākṣika*). (This poultice) must be tied on the liver. It will remove ((^o)*śudh*, (^o)*han*, *hr*) cough (*kāsa*) (and) disturbance of the breath (*śvāsa*).

§ 43 (P 2893.95-96)

(1) *śī pau phaji pajsāññā* . *cipaññāññā* . *biṃdai* (2) *śīkarā parkūññā* . *u* (3) *halaidrā* . *jara biṃdā baññāññā* . *jara vasūje* ::

(1) White onion must be cooked in glowing coals, must be chopped, (2) sugar (*śarkarā, sitā*) and (3) turmeric (*haridrā*) must be sprinkled on it. (This poultice) must be tied on the liver. It will purify the liver.

§ 44 (P 2893.96-98)

³¹⁶ Bailey: *śīlā-jattā*.

(1) *rrustiri āškä . u* (2) *sīṃji āškä .* (3) *ysarūṃ māṃgä* (4) *krrīṃgīñä [[×]]*³¹⁷ *āha' . haṃmaṃgä*
*vīstāñä . ārāñä . buysīñä svīdāna piṇḍai pāchai [[×]]*³¹⁸ *jara biṃdä bañāñä ::*

(1) Drops of mudar (*arka*), and (2) drops of jujube (*kola, bādara*), (3) green beans, (and) (4) an egg (*aṇḍa*) of a fowl (*dakṣa*) must be put in equally, (and) be ground. The poultice must be cooked with goat (*chāga*) milk (*kṣīra*) (and) be tied on the liver.

§ 45 (P 2893.98-100)

(1) *nīyakä .* (2) *ahauḍi-vārrjä biṃdä būsṽñä u bidai hā* (3) *hama-ysā śikarä parkūñāñä . ṣi'*
piṇḍai paṃjsä haḍā vaṣṭä jarrä biṃdä . bañāñä . cū buri va jarañä āchā īṃde . bīśī vasūsīṃdä ::

(1) Butter (*navanīta*) must be placed upon (2) a bottle-gourd (*alābu*) leaf and (3) uniform sugar (*śarkarā, sitā*) must be sprinkled on it. This poultice (*piṇḍaka*) must be tied on the liver for five days. Whatever diseases (*gada, roga*) there are in the liver, they will all be purified for him.

§ 46 (P 2893.100-102)

(1) *rūva .* (2) *rrustarä .* (3) *rūñai .* (4) *rrīysva gūrva .* (5) *būsīñä pī .* (6) *hauskā gurä . biśā*
haṃmaṃgä vīstāñä naukä kūṭāñä . ṣi' jarä biṃdāṣṭā piṇḍai .

(1) Copper, (2) mudar (*arka*), (3) Indian madder (*mañjiṣṭhā*), (4) rice semolina (*lājā, dhānāḥ*), (5) goat (*chāga*) fat (*medas*), (6) dry (*śuṣka*) grapes (*drākṣā, mṛdvīkā*) must all be put in equally (and) be pounded (*kuṭṭ*) finely. This (is) a poultice (*piṇḍaka*) (to put) on the liver.

§ 47 (P 2893.102-104)

³¹⁷ Uncertain. The ms has a deleted *akṣara* after *ñä*. Bailey [*hā ?*] with fn. 'Blurred syllable'.

³¹⁸ Uncertain. The ms has a deleted *akṣara* after *chai*. Bailey [*ja*] with fn. 'ja blurred'.

(1) *rrūṇā-ttūṃ* . (2) *vi'yajä* . *haṃmagä vīstāñä* . *kūṭāñä* . (3) *maṃgārä mauna paḥerāñä* . *khvai va bāva pa'jsa ī ttī* (4) *kūjsāvī[[×]]nai*³¹⁹ *rūṃna ā vā* (5) *gvī'hä'*: *rūṃna* . *mūrāñä* . *jarra vī bañāñä* . *jara vī ttraikṣä vñä jimḍä* ::

(1) Indian madder (*mañjiṣṭhā*) seed (and) (2) *vi'yajä* must be put in equally, be pounded (*kuṭṭ*), (and) be moistened (*bhāvita*) with (3) old (*purāṇa*) liquor (*mada*). If there should be strong wind (*vāta*) for one, then (the whole) must be rubbed with (4) sesame oil (*taila*) or alternatively (5) with cow oil (*ghṛta*) (and) must be tied on the liver. It will remove ((°)*śudh*, (°)*han*, *hṛ*) severe pains in the liver.

§ 48 (P 2893.104-108)

(1) *ttīra ahādä hīya ṣara* . (2) *gulä* . (3) *sūdā-kṣīrā*³²⁰ . (4) *rrustirä āṣkā* . (5) *balāttakye* . (6) *padīya āste* . (7) *caittrai hīya grūṣkā* . (8) *bañjām grūṣkyām hīvī kṣārä* . *hamamṃgä vīstāñä nauka kūṭāñä* . *tcāra jsä peṃḍai padīmāñä* . *jara vī* . *khāysāñä* . *phiysgāñä* . *gauṃa jidä* . *u hasä jimḍä* . *u parigrahä*: *u vātāṣṭhīlai biśä jimḍä* ::

(1) The seeds of the bitter (*amla*, *tikta*, *śukta*) bottle-gourd (*alābu*), (2) crude sugar (*guḍa*, *phāṇita*), (3) milkhedge (*snuhī*), (4) drops of mudar (*arka*), (5) marking nut (*bhallātaka*), (6) burnt bones (*asthi*), (7) husk (*tvac*) of leadwort (*agni*, *citraka*, *vahni*) (and) (8) the alkali (*kṣāra*) of oak bark (*tvac*) must be put in equally (and) must be pounded (*kuṭṭ*). A poultice (*piṇḍaka*) must be made with fat. It removes ((°)*śudh*, (°)*han*, *hṛ*) tumours (*gulma*) in the liver, in the stomach (*āmāśaya*), (and) in the bladder (*vasti*), and it removes ((°)*śudh*, (°)*han*, *hṛ*) swellings (*śopha*), and altogether removes ((°)*śudh*, (°)*han*, *hṛ*) *parigraha* and wind internal tumours (*vātāṣṭhīlā*).

³¹⁹ Uncertain. The ms has a deleted *akṣara* after *vī*. Bailey: *kūjsāvī[na] nai* with fn. 'na blurred'.

³²⁰ Bailey: *sūdākṣīrā*.

FIFTH CHAPTER: POULTICES TO APPLY ON THE SPLEEN

§ 49 (P 2893.108-109)

tti vā śpaijai biṃdāṣṭā piṇḍā ::

The following (are) the poultices (*piṇḍaka*) (to apply) on the spleen.

§ 50 (P 2893.109-111)

(1) īraṇḍe gurmāññā . nauka ārāññā . (2) khyera śvīdi jsi peṇḍai pāchai . (3) kujśavīnai rūṃna gumalyāññā . bidai (4) kuṣṭhā parkūnāññā . u (5) spajūṃ . śpaijai bidā bañāññā ::

(1) (The seeds of the) castor-oil plant (*eraṇḍa*) must be crushed (and) be ground finely. A poultice (*piṇḍaka*) must be cooked with (2) ass milk (*kṣīra*), be mixed with (3) sesame oil (*taila*), (and) (4) costus (*kuṣṭha*) and (5) sochal salt (*sauvarcala*) must be sprinkled on it. It must be tied on the spleen.

§ 51 (P 2893.111-112)

(1) īraṇḍe (2) dūmā-hauṣṭā gūra . (3) pattaudā gāññā mījsākā . hamāṅgā vīśtāñña . nauka ārāññā . haṃtsā pāchai . śpaijai biṃdā bañāññā ::

(1) Castor-oil plant (*eraṇḍa*), (2) smoke-dried (*śuṣka*) grapes (*drākṣā, mṛdvīkā*), (and) (3) the roasted marrow of *guñāś* must be put in equally, must be finely ground, (and) must be cooked together. (The poultice) must be tied on the spleen.

§ 52 (P 2893.112-115)

(1) *gāṇā mījsākā* . (2) *gīchāṇā mījsākā* . (3) *śīṃja āškā* . (4) *kuṃjsa* . (5) *aśā sahā' hīya ranūškā* . (6) *khūra vastaṇā bīsā garṣva* . (7) *rrājā namva*³²¹ . *haṃmaṅgā vīstāñā* . *nauka ārāñā mauna pāchai* . *ṣpaijai vī bañāñā pari[[×]]grahā*³²² *jiṃdā u kasai vīste* ::

(1) The marrow of *guṇās*, (2) the marrow of plantains (*moca*), (3) drops of jujube (*kola*, *bādara*), (4) sesame (*tila*), (5) the scraping of a horse's hoof, (6) *khūra* stones in the bladder, (and) (7) salt (*lavaṇa*) from the plains (*romaka*) must be put in equally, be finely ground. (The whole) must be cooked with liquor (*mada*). (The poultice) must be tied on the spleen. It will remove ((°)*śudh*, (°)*han*, *hr*) *parigraha* and stop fever (JP *jvara*).

§ 53 (P 2893.115-117)

(1) *dājsaṃdai* . *mījsāka* .(2) *haṃga* . (3) *āra* . [[×]]³²³ (4) *pauṣṭarā* . *biśi haṃmaṅgā vīstāñā* . *nauka kūṭāñā* . (5) *rrāji namve*³²⁴ *jsa śi' peṃḍai pāchai* . *ṣpai'jai vī bañāñā* . *kasai vīste* ::

(1) Marrows of *dājsaṃdai*, (2) bladder sorrel (*amalavetasa*), (3) sweet flag (*vacā*), (and) (4) wild Himalayan cherry (*padmaka*) must all be put in equally (and) must be finely pounded (*kuṭṭ*). This poultice (*piṇḍaka*) must be cooked with (5) salt (*lavaṇa*) of the plains (*romaka*). It must be tied on the spleen. It will stop fever (JP *jvara*).

§ 54 (P 2893.118-119)

(1) *hajārnā spyē* . (2) *tcyāṃśvīna* . (3) *rrāje namvena*³²⁵ *śi' piṇḍai pāchai* . *u* (4) *hāmai hā vamathauñā* . *śi' piṇḍai ṣpai'jai biṃḍā bañāñā* . *maṅgārā kasai vīste* ::

³²¹ *KT 3 87.114: rrājā-namva.*

³²² Uncertain. The ms has a deleted *akṣara* after *ri*, not signalled by Bailey

³²³ Uncertain. The ms has a deleted *akṣara* after *ra* . . Bailey: [*a*] with fn. 'a blurred'.

³²⁴ Bailey: *rrāji-namve.*

³²⁵ Bailey: *rrāje-namvena.*

(As for) the (1) *hajārnā* flowers, this poultice (*piṇḍaka*) must be cooked with (2) *tcāṃśvī* (and) (3) salt (*lavaṇa*) of the plains (*romaka*), and (4) wheat flour (*kaṇikā*) must be churned into it. This poultice (*piṇḍaka*) must be tied on the spleen. It will stop old fever (JP *jvara*).

§ 55 (P 2893.119-122)

(1) *kuṣṭhā* . (2) *āra* . (3) *spaju* (4) *bā ttīṃ* . (5) *gūrve ṭraṃde*³²⁶ . (6) *kuṃjsa* . *hamaṅgā vīstāññā* . *naukā ārāññā* . *khyerye* [[×]]³²⁷ *tcāri jsi mūrāññā* . *hau'gā peṇḍai padīmāññā*³²⁸ . *grāṃ grāṃ spaī'jai biṇḍā baññāññā spaī'jai vī khaiya jiṇḍā* ::

(1) Costus (*kuṣṭha*), (2) sweet flag (*vacā*), (3) sochal salt (*sauvarcala*), (4) dill (*śatapuspā*), (5) crushed (seeds of the) castor-oil plant (*eraṇḍa*), (and) (6) sesame (*tila*) must be put in equally, must be finely ground, (and) must be rubbed with ass fat (*vasā*). A soft poultice (*piṇḍaka*) must be made. (While it is) quite warm (*uṣṇa*), it must be tied on the spleen. It will remove ((°)*śudh*, (°)*han*, *hṛ*) aches (*toda*) in the spleen.

³²⁶ Bailey: *īraṃde*.

³²⁷ Uncertain. The ms has a deleted *akṣara* after *rye*. Bailey: [×] with fn. 'Blurred syllable'.

³²⁸ Bailey: *padīmāññā*.

SIXTH CHAPTER: POULTICES TO APPLY ON THE NAVEL

§ 56 (P 2893.122)

tti vā nihāṣṭā peṃdā ::

The following (are) the poultices (*piṇḍaka*) (to apply) on the navel (*nābhi*).

§ 57 (P 2893.122-124)

(1) *rrvīysva gūrva* . (2) *halaidrā* . (3) *śīkarā* . (4) *huṣkā gūrā* . *hamamṅā vīstāñā* . *naukā kūṭāñā* .
(5) *ūlīṇye tcāri jsā ṣi' piṇḍai piherāñā* . *neha bañāñā* . *aha vasūje ::*

(1) Rice semolina (*lājā*, *dhānāḥ*), (2) turmeric (*haridrā*), (3) sugar (*śarkarā*, *sitā*), (and) (4) dry (*śuṣka*) grapes (*drākṣā*, *mṛdvīkā*) must be put in equally (and) must be finely pounded (*kuṭṭ*). This poultice (*piṇḍaka*) must be moistened (*bhāvita*) with (5) camel (*auṣtra*) fat (*vasā*). It must be tied onto the navel (*nābhi*). It will cleanse the belly.

§ 58 (P 2893.124-126)

(1) *gūra* . (2) *śī pau* . *tti hamamṅā kūṭāñā* . (3) *śīkarā* . (4) *sadalūṃ* . *hamamṅā vīstāñā* . *pātcā arāñā* . (5) *gvī'ha' ruṃna mūrāñā* . *neha bañāñā* . *ṣi' ahe vasūjāḱkā piṇḍai ::*

(1) Grapes (*drākṣā*, *mṛdvīkā*) (and) (2) white onion – these must be pounded (*kuṭṭ*) equally. (3) Sugar (*śarkarā*, *sitā*) (and) (4) rock salt (*saindhava*) must be put in equally. Then (the mixture) must be ground, must be rubbed with (5) cow oil (*ghṛta*), (and) must be tied on the navel (*nābhi*). This is a poultice (*piṇḍaka*) that cleanses the belly.

§ 59 (P 2893.126-128)

(1) *kuṃṃsa* . (2) *śīkarā* . (3) *ttir̥scya* . *haṃaṃgā vīstāñā* . *nauka ārāñā* . (4) *gvīha' rūṃna* . (5) *mākṣīna paḥerāñā niha bañāñā* . *ṣi' ahañāṣṭā peṇḍai* ::

(1) Sesame (*tila*), (2) sugar (*śarkarā*, *sitā*), and (3) oldenlandia (*parpaṭa*) must be put in equally, be finely ground, be moistened (*bhāvita*) with (4) cow oil (*ghṛta*) (and) (5) honey (*mākṣika*), (and the whole) must be tied on the navel (*nābhi*). This (is) a poultice (*piṇḍaka*) for (placing on) the belly.

§ 60 (P 2893.128-130)

(1) *dūmi-hauṣṭā gūra* . *ttyāṃ ma dāṇa thaṃjāñā stūra*³²⁹ (2) *būhana 6 haṃtsā naukā kūṭāñā* . (3) *gvīhā' rūṃna mūrāñyā* . *ṣi' piṇḍakā neha' bañāñā* . *aha vasūje* . *u khāysā vī raiśā' padīme* ::

(1) Smoke-dried (*śuṣka*) grapes (*drākṣā*, *mṛdvīkā*) must be pulled out of their fire (*agni*, *anala*, *jyotis*) here (and) 6 large (tubers of) (2) nut grass (*musta*) must be finely pounded (*kutṭ*) together (and) rubbed with (3) cow oil (*ghṛta*). This poultice (*piṇḍaka*) must be tied on the navel (*nābhi*). It will cleanse the belly and create an appetite (*rocanaḥ*, *ruci-pradas*) for food (*anna*).

§ 61 (P 2893.130-132)

(1) *dūmi-hauṣṭā gūra* . (2) *tharkā mījsā* . (3) *kuṃṃsa* . (4) *bara sīṃje* . (5) *āḍā haṃaṃgā vīstāñā naukā kūṭāñā* . *pau hīye ucā jsā paḥerāñā* . *nihā' bañāñā ṣe' peṇḍai vātta-pittā jīṃdā ū dūvarā* ::

(1) Smoke-dried (*śuṣka*) grapes (*drākṣā*, *mṛdvīkā*), (2) walnut kernels (JP *akṣoṭa*), (3) sesame (*tila*), (4) jujube (*kola*, *bādara*), (and) (5) barley semolina (*saktu*) must be put in equally, finely pounded (*kutṭ*), moistened (*bhāvita*) with the water (*ambu*, *jala*, *vāri*) of onion, (and) tied on the navel (*nābhi*). This poultice (*piṇḍaka*) will remove ((^o)*śudh*, (^o)*han*, *hṛ*) wind-bile (*vāta-pitta*) and dropsy (*udara*).

³²⁹ Bailey emends *stūra* to *kastūra* but gives no justification.

§ 62 (P 2893.132-135)

(1) *ysarūṃ māgā . dvyī mācāṃgye . (2) vīna gīchākāṃ halīrā dvyī mācāṃgye . (3) spajū hālā mācāṃgye . nauka ārāṇa . gvīhā' rūṃnā paḥerāṇā . niha bañāṇā ahe va piṇḍai kālī naiśtā . cī bādā ḥamāve ::*

(1) Green beans – two drams, (2) chebulic myrobalans (*harītakī*) without kernels – two drams, (and) (3) sochal salt (*sauvarcala*) – half a dram must be finely ground, moistened (*bhāvita*) with cow oil (*ghṛta*), (and) tied on the navel (*nābhi*). (This is) a poultice (*piṇḍaka*) for the belly. It is not the time (*kāla*) for it if (the belly) should become swollen.

SEVENTH CHAPTER: POULTICES FOR SCROTAL ENLARGEMENT AND DOWNWARD MOTION

§ 63 (P 2893.135)

*ttī vā naraiya va u nāṣṭā āchāṃ *va³³⁰ piṇḍā .*

The following (are) poultices (*piṇḍaka*) for scrotal enlargement³³¹ (*vṛddhi*, JP *vardhma*) and for diseases (*gada*, *roga*) (involving) downward (motion) (*viṣṭambhin*).

§ 64 (P 2893.135-138)

cu saṃbhārā vahaiysāre . mistye hvaṇḍe . ā valakyā ṣikā . ṣai' va paidai . (1) hainai caṃḍā³³² . (2) kuṣṭhā . (3) sidalūṃ . (4) kaṇḍārya . (5) lākṣā . (6) kastīrā bisā haṃmaṅgā vīṣṭāññā . naukā kūṭāññā . (7) sauttāna u (8) kaujṣavīnai rūṃna ṣi' piṇḍai pāchai hā bañāññā jatte ::

When the supports (of the intestines) descend, for an adult man (*nara*) or a young child³³³ (*kaniṣṭha*) this is the poultice (*piṇḍaka*) in that case: (1) red sandal (*rakta-candana*), (2) costus (*kuṣṭha*), (3) rock salt (*saindhava*), (4) wild eggplant (*kaṇṭakārikā*, *bṛhatī*, *vyāghrī*), (5) lac (*lākṣā*), (and) (6) tin (*kastīra*) must all be put in equally, (and) be pounded (*kuṭṭ*) finely. This poultice (*piṇḍaka*) must be cooked with (7) verjuice (*śukta*) and (8) sesame oil (*taila*) and tied on. He will be cured (*sidh*, *sukhī bhū*).

§ 65 (P 2893.138-140)

ttī vā pātcā tṭyau haṃyau (2) arvyau jsa u (3) suttāna (1) kuṃjṣavīnai rūṃ pāchai makṣāññū jsā u khāśāññā . naraiya jīṃḍā ::

³³⁰ **va* for ms *na* (Emmerick).

³³¹ ‘scrotal enlargement’: differently Emmerick.

³³² Bailey emends **caṃḍam* for ms *caṃḍā*.

³³³ ‘for an adult man or a young child’: differently Emmerick.

Then, alternatively, (1) sesame oil (*taila*) must be cooked with (2) the same drugs and with (3) verjuice (*śukta*), must be rubbed with them and must be drunk. It will remove ((°)*śudh*, (°)*han*, *hr*) scrotal enlargement³³⁴ (*vṛddhi*, JP *vardhma*).

§ 66 (P 2893.140-141)

(1) *vasve hāmai haṃtsä* (2) *mṛjsākṛṇai rūṃna mūrāñä . u śi' peṇḍai hūṣya bañāñä naraiye jatte ::*

(1) Pure wheat flour (*kaṇikā*) must be rubbed together with the (2) oil (*ghṛta*) from kernels and this poultice (*piṇḍaka*) must be tied on the groin (JP *vankṣaṇa*). The scrotal enlargement³³⁵ (*vṛddhi*, JP *vardhma*) will be cured (*sidh*, *sukhī bhū*).

§ 67 (P 2893.141-142)

tī pātcā (1) *nṛysva jṣā'ñāñä u śi' peṇḍai . hā nīśāñä . u* (2) *mṛjsākṛṇai rūṃ gūmalyāñä . hūṣya bañāñä naraiya jeṃdä ::*

Then next (1) lentils (*masūra*) must be boiled and the (previous) poultice (*piṇḍaka*) must be put in and (2) oil (*ghṛta*) from kernels must be mixed (in). It must be tied on the groin (JP *vankṣaṇa*). It will remove ((°)*śudh*, (°)*han*, *hr*) scrotal enlargement³³⁶ (*vṛddhi*, JP *vardhma*).

§ 68 (P 2893.142-145)

³³⁴ 'scrotal enlargement': differently Emmerick.

³³⁵ 'scrotal enlargement': differently Emmerick.

³³⁶ 'scrotal enlargement': differently Emmerick.

*cū saṃbhāra hasvīṃdā . ṣai' peṃdai . (1) halīrai . (2) vihīlai . (3) āmalai . hamamṅā vīstāñā .
naukā kūṭāñā . paherāñā . cu saṃbhārā sādā hamāṃde varam [[×]]³³⁷ grām grām bañāñā . cū
ttauḍā īṃde varā pvā bañāñā ::*

When the supports (of the intestines) swell, this is the poultice (*piṇḍaka*). (1) Chebulic myrobalan (*harītakī*), (2) belleric myrobalan (*vibhītakī*), (and) (3) emblic myrobalan (*āmalaka*, *āmalaakī*, *dhātrī*) must be put in equally, finely pounded (*kuṭṭ*), (and) moistened (*bhāvita*). When the supports (of the intestines) become cold (*śīta*), (this poultice) must be tied on them while quite warm (*uṣṇa*). When they are hot (*uṣṇa*, *dāha*), it must be tied on the feet.

upadaṃśa

§ 69 (P 2893.145-146)

(1) kalarbā bāta . rūṃña jṣā'ñāñā . u kūṭāñā . dahīñā . gūnai biṃdā bañāñā ūpadeśā jeṃdā ::

(1) The root (*mūla*) of *kalarba* must be boiled in oil (*ghṛta*) and pounded (*kuṭṭ*). (This poultice) must be tied on the male organ. It will remove ((°)*śudh*, (°)*han*, *hṛ*) disease of the male organ (*upadaṃśa*).

§ 70 (P 2893.146-148)

*(1) ysīdā spyē . (2) īraṃde . (3) kuṃjsa . (4) sauhīya rrauṭā hamamṅā vīstāñā (5) ulīñe tcāra jsā
u (6) khyerye tcārā jsā mūrāñā pe'ma³³⁸ jsā nūṣṭyāñā grām grām pheysgāñā nīsāñā brūṣkyā vīñā
jiṃdā ::*

³³⁷ Uncertain. The ms has a deleted *akṣara* after *varam* and a vertical stroke below the *raṃ* of *varam*.
Bailey: [×] with fn. 'Blurred syllable'.

³³⁸ Bailey: *peṃa*.

(1) Yellow flowers (*pīta-puṣpa*), (2) castor-oil plant (*eraṇḍa*), (3) sesame (*tila*), (and) (4) *sauhīya rrauṭā* must be put in equally, must be rubbed with (5) camel (*auṣtra*) fat (*vasā*) and with (6) ass fat, must be wrapped (*ābaddha*) with a woollen cloth, (and) while quite warm (*uṣṇa*) (this poultice) must be placed on the bladder (*vasti*). It will remove ((°)*śudh*, (°)*han*, *hr*) severe pain.

nāṣṭā āchām

§ 71 (P 2893.148-152)

(1) *bā ttīma* (2) *sauhīya rrauṭā* .(3) *kuṣṭā* . (4) *sidalūṃ* . *tti hamaṃgā vīśtāñā* . *nauka ārāñā* . *ysūñāñā* . (5) *kumjśavīnai rūṃna* . *śāvīñā bājīnakañā* . *dūra padīmāñā* . . *cū na myāṃ nāṣṭā*³³⁹ *hasvā īṃde* . *varā saṃkhilyāñā* . (6) *cūvaṃ saṃ* . *khu nvaśtā himāve vara biśā* . *śera īṃdā* ::

(1) Dill (*śatapuṣpā*), (2) *sauhīya rrauṭā*, (3) costus (*kuṣṭha*), (and) (4) rock salt (*saindhava*) – these must be put in equally, finely ground, strained, (and) made hard with (5) sesame oil (*taila*) in a copper (*tāmra*, *śulva*) vessel. When the lower waist produces downward (*viṣṭambhin*) swellings, (6) barberry extract must be smeared on there. As soon as alleviation should occur, it will do good altogether there.

§ 72 (P 2893.152-155)

cū pyatsī ūskivaśe . *kaśte* . *u vīnai haṃe* . *ṣai' peṃḍai* . (1) *ttīrā ahaudā*³⁴⁰ *hīya ṣarā* . *ṣi'* (2) *hvī ṣvīdanā* . *bīnāyi vīśtāñā* . *u dva* . *piṇḍā padīmāñā* . *grām grām śau phiysgāñā nīśāñā* . *u śau hā tvī tvī āyvāñā ūskivaśe prrahāje* ::

When in front of one *ūskivaśe* appears and pain occurs, this (is) the poultice (*piṇḍaka*) for it: (1) the seeds of the bitter (*amla*, *tikta*, *śukta*) bottle-gourd (*alābu*) – this must be put to steep with

³³⁹ Bailey: *myānāṣṭā*.

³⁴⁰ The ms has *a* written below *hau*.

(2) human milk (*stanya*) and two poultices (*piṇḍaka*) must be made. While quite warm (*uṣṇa*) one must be placed on the bladder (*vasti*) and one must be heated twice as much on it. It will open the *ūskivaśe*.

§ 73 (P 2893.155-156)

(1) *saunai phārā* . (2) *naṃvīṃje uci jsā pāchai* . *piṇḍaiyūṃ jsā padīmāñā* . (3) *kūjsqvīnai*³⁴¹
rūṃna gūmalyāñā . *khu saṃbhārā hasvīṃdā* . *varā bañāñā* ::

(1) *saunai phārā* must be cooked with (2) salt (*lavaṇa*) water (*ambu, jala, vāri*). A poultice (*piṇḍaka*) must be made with them (and) it must be smeared with (3) sesame oil (*taila*). When the supports (of the intestines) swell, it must be tied thereon.

³⁴¹ Bailey: *kūjsqvīnai*.

EIGHTH CHAPTER: REMEDIES FOR THE SEXUAL DYSFUNCTION

§ 74 (P 2893.156-157)

khu ni maittrā³⁴² na paṇame u ṣai' aspāśde' ::

When love does not arise below (*adhas*) and the following produces it.

§ 75 (P 2893.157-159)

(1) dūma-hauṣṭā gūrā . (2) tharkā mījsā . (3) bi'gajā pī . (4) kuṇjsā . (5) īraṇde . (6) phaji-vaha' pau . (7) ūlīṇa tcārā . [[×]]³⁴³ hamaṅgā vīstāñā . haṁtsā kūṭāñā mūrāñā . ṣi' peṇḍai mijsām' phaiysgāñā bañāñā . pūrāñā āchā jīṇḍā ::

(1) Smoke-dried (*śuṣka*) grapes (*drākṣā*, *mṛdvīkā*), (2) walnut kernels (JP *akṣoṭa*), (3) kidney fat (*medas*), (4) sesame (*tila*), (5) castor-oil plant (*eraṇḍa*), (6) an onion cooked in glowing coals, (and) (7) camel (*auṣṭra*) fat (*vasā*) must be put in equally, pounded (*kuṭṭ*) together, (and) rubbed. This poultice (*piṇḍaka*) must be tied on the bladder (*vasti*) of women. It removes ((°)*śudh*, (°)*han*, *hr*) diseases (*gada*, *roga*) in the womb (*yoni*).

§ 76 (P 2893.159-161)

(1) bi'jāśīṇa tcārā . (2) caurśī' . (3) tharka mījsā . (4) papala . (5) ttaugarā khāśā'ñā . na maittrā³⁴⁴ paṇame . dahā pūra padīme ::

³⁴² Bailey: *nimaittrā*.

³⁴³ Uncertain. The ms has a deleted *akṣara*. Bailey: *[×]* with fn. 'Blurred syllable'.

³⁴⁴ Bailey: *namaittrā*.

(1) Fat of *bi'jāsa*, (2) *caurśī'*, (3) walnut kernels (JP *akṣoṭa*), (4) long pepper (*pippalī*), (and) (5) ginger (*ādraka*, *nāgara*, *viśvā*) must be drunk. Love will arise below (*adhas*) (and) she will produce a male child.

NINTH CHAPTER: POULTICES FOR PILES

§ 77 (P 2893.161)

tti vā arrjä va piṇḍā.

The following (are) the poultices (*piṇḍaka*) for piles (*arśas*).

§ 78 (P 2893.161-163)

(1) *cvaṃ* . (2) *pryaṃgā* . (3) *vaṇḍaṃgā* . (4) *vāmīrāṃ* . (5) *yausa* . (6) *siṃjsūrā* . *haṃaṃgā* *vīstāñā* . *naukā ārāñā* . *nīyakānā śi' peṇḍai pahairāñā* . *cū brrāṃg<āṃ biṇḍā hūñ>ä³⁴⁵* *narāṃe* . *vara bañāñā* . *krreṃgā-rūya arrjä jeṇḍä u pīrāñā jeṇḍä ::*

(1) Barberry extract, (2) perfumed cherry (*śyāmā*), (3) embelia (*viḍaṅga*), (4) *vāmīrāṃ*, (5) musk (*kastūrī*), (6) *siṃjsūrā* must be put in equally (and) be finely ground. The poultice (*piṇḍaka*) must be moistened (*bhāvita*) with butter (*navanīta*). When (the piles) come out on the thighs, it must be tied thereon. It will remove ((^o)*śudh*, (^o)*han*, *hṛ*) piles (*arśas*) in the anus (*guda*) and will remove ((^o)*śudh*, (^o)*han*, *hṛ*) worm grains (*krimi*).

§ 79 (P 2893.164-165)

(1) *huṣkyā ttrahe kūṭāñā* . (2) *maṃgārā rūṃna jṣyāñāñā krregā-rūya bañāñā* . *<hūñā> vīstā³⁴⁶* *arrja jeṇḍä ::*

³⁴⁵ *brrāṃg<āṃ biṇḍā hūñ>ä* for ms *brrāṃgā*.

³⁴⁶ *<hūñā> vīstā* for ms *vīstā*.

(1) Dry radishes (*śuṣka-mūlaka*) must be pounded (*kuṭṭ*), boiled with (2) old (*purāṇa*) oil (*ghṛta*) (and) tied on the anus (*guda*). (This poultice) will stanch the blood (*asra, rakta, śoṇita*) (and) will remove ((°)*śudh*, (°)*han, hṛ*) piles (*arśas*).

§ 80 (P 2893.165-166)

(1) *aṃguṣṭi* . (2) *kuṃjśavīnai rūñya jṣā'ñāñā* . *ū krreṃga-rūya bañāñā* . *u nihā' saṃkhalyāñā* .
arrjä uysbāyi thaṃje ::

(1) Asa foetida (*hiṅgu*) must be boiled in (2) sesame oil (*taila*) and be tied on the anus (*guda*) and be smeared on the navel (*nābhi*). (This poultice) will draw out (and) extract piles (*arśas*).

§ 81 (P 2893.166-168)

(1) *nūvara-ysā basākā hīvī saṃnā* (2) *birṣṭā ā'ysaṃ* . *u* (3) *rrājā namva*³⁴⁷ . *hamaṃgā vīstāñā* .
kūṭāñā . *kujsavīnai rūṃna pāchai arrjä biṃdā* . *bañāñā* . *hūña vīste u arrjä jeṃdā* ::

(1) Dung (*viṭka, viṣ, śakṛt*) of a newborn calf, (2) burst millet (*nīvāra*), and (3) salt (*lavaṇa*) from the plains (*romaka*) must be put in equally (and) pounded (*kuṭṭ*). (This poultice) must be cooked with sesame oil (*taila*) (and) be tied on the piles (*arśas*). It will stanch the blood (*asra, rakta, śoṇita*) and will remove ((°)*śudh*, (°)*han, hṛ*) piles (*arśas*).

§ 82 (P 2893.168-169)

(1) *mūla haḥvāñā* . *ū* (2) *śī pāṇa hatsā kūṭāñā* . *arrjä biṃdāṣṭā peṃḍai* ::

(1) Indian asparagus must be hashed and pounded (*kuṭṭ*) together with (2) white onion. (This is) a poultice (*piṇḍaka*) (to apply) on the piles (*arśas*).

§ 83 (P 2893.169-170)

³⁴⁷ Bailey: *rrājā-namva*.

pātca (1) mūla (2) sūttauña nīśqñā hahvāñā . u (3) māḡṡñā mūrāñā . arrjä biṡḡä bañqñā ::

Next, (1) Indian asparagus must be put in (2) verjuice (*śukta*), be hashed, and rubbed with (3) honey (*māḡṡika*). (The poultice) must be tied on the piles (*arśas*).

TENTH CHAPTER: POULTICES FOR ITCHING

§ 84 (P 2893.170)

tti vā ā'syāṃ va yaugā u pe[[×]]³⁴⁸ṇḍā

The following (are) prescriptions (*yoga*) and poultices (*piṇḍaka*) for itching (*kaṇḍū*).

§ 85 (P 2893.170-177)

*ranīkā ttā cu jsiṇā ā'sye sarbīṃdā . u pī'jsa kyihāre . humari biysamjāre ttyāṃ va ttīrādāṇīnai³⁴⁹
rūṃ pajsāñā . u kūṭya jastā āṇi (1) ttīrādāṇā śtākā drrai śiṃga . u (2) kahā' dva śiṃga . (3)
puṣṭa-ttākavi dva śiṃga . (4) salīcā hālai śiṃgā . śi' biśā sūjina haṃbrrīhāñā . darā akūṭye
bagala pyaṇāñā . bagala hīvī tturā gūrvyau haçānyau jsā styūdā pūṇvāñā . styūdi śaṃdai dīraṃ
juṣṭīnainai gatsā padīmāñā . u śi' bagalā pāstumgā vīśtāñā . dīnai hā grīṃja lakāna vīśtāñā . ā
vā mistā gītserā . kuṣṭā hā śi' ruṃ ttaṣṭā . u tte bagala bidā samñyau jsa dai tcerai . daṃḍā khu
śi' bagala bīse herā biśā sūśtā ::*

The skin irritations which slightly rise from an itching (*kaṇḍū*) and itch strongly, hold the joints (of the eyes) (*saṃdhi*) – for them *ttīrādāna* oil must be cooked and, the balls of the eyes being aching (*kuṭṭ*), (the following is) necessary: (1) *ttīrādāna* three ounces (*prastha*), and (2) hemp two ounces, (3) *puṣṭa-ttākavi* two ounces, (4) pea (*satīna*) half an ounce. All this must be mixed with one another (and) must be put in the hollow of an intact vessel. The mouth (*vaktra*) of the vessel must be firmly filled (to the brim) with ground thatch (grass) (*kāśā*). In firm ground, a hole (covered) with jute fabric must be made and the vessel must be placed upside down. Below (*adhas*) it a clay basin must be put or alternatively a large gypsum (vessel) where the oil

³⁴⁸ Uncertain. The ms has a deleted *akṣara* after *pe*. Bailey: *pe[ṇḍā] ṇḍā* with fn. 'Blurred out'.

³⁴⁹ Bailey: *ttīrā-dāṇīnai*.

will ooze. And over the vessel fire (*agni, anala, jyotis*) must be made with dung (*viṭka, viṣ, śakṛt*) until the stuff in the vessel burns completely.

§ 86 (P 2893.177-179)

śe' ranīkāṃ va yaugā . (1) ysamgarā puṣṭārā tcārbā . jseṇā jseṇā gvāsau'ñā bagīla pyaṇāññā³⁵⁰ tta tta pāchai khu ri ttīrādāññai³⁵¹ rūṃ u (2) kaura hvāṣi hvā'ñāññā . (3) kujsavīñai rrūṃñā paḥerāññā kuṣṭā ranīkāṃ bidā samkhalyāññā . pīrmāttam yaugā ::

Second prescription (*yoga*) for skin irritations. (1) Old, greasy (*snigdha*) wild Himalayan cherry (*padmaka*) must be broken into very fine pieces, be put into a vessel, be cooked just like the *ttīrādāna* oil and (the oil so obtained) must be made dry in (2) *kaura*-grass. It must be moistened (*bhāvita*) with (3) sesame oil (*taila*) (and) be smeared on the irritations of the skin disease (*kuṣṭha*). (This is) the best prescription (*yoga*).

§ 87 (P 2893.179-181)

(1) būsīñā pī . (2) rrustarā . (3) rrūva . (4) drāṃa ttīma . (5) huṣka gūra . haṃmaṅga vīstāñña naukā kūṭāñña (6) gvī'hā' rūṃna mūrāññā . nuvara narve āsī ā viram biṃdā bañāññā . ysū śau'le . u haṃbrrauñe ::

(1) Goat (*chāga*) fat (*medas*), (2) mudar (*arka*), (3) copper, (4) pomegranate (*dāḍīma*) seeds, (and) (5) dry (*śuṣka*) grapes (*drākṣā, mṛdvīkā*) must be put in equally, finely pounded (*kuṭṭ*), (and) rubbed with (6) cow oil (*ghṛta*). (This poultice) must be tied on a newly burst itching (*kaṇḍū*) or a wound (*vraṇa*). It will suck pus (*pāka*) dry and heal (illness).

§ 88 (P 2893.181-183)

³⁵⁰ Bailey: *pyaṇāññā*.

³⁵¹ Bailey: *ttīrā-dāññai*.

(1) *mijejūna*³⁵² *sachi perä* u (2) *ahaysnāva ysaramjśä* . *pattāḍä hāmai hamaṅgä vīśtāñä* u (4) *hvi śvīdanä paiṅḍai padīmāñä* . *stāṅgä āsī haṅḍāve* ::

(1) Leaves of *red sida and (2) unwashed safflower (JP *kurumbha*) (and) (3) roasted wheat flour (*kaṅikā*) must be put in equally and a poultice (*piṅḍaka*) must be made with (4) human milk (*stanya*). It will ripen a swollen itch (*kaṅḍū*).

§ 89 (P 2893.183-184)

(1) *mahābāṅji jiṣṭye kaṣe'na* (2) *kūṭye gauśāna paiḍai pāchai* **stana-vidrradhi*³⁵³ *tcaba'je* u *haṅbva'* ::

A poultice (*piṅḍaka*) must be cook with a boiled decoction (*kaṣāya, kvātha, sva-rasa*) of (1) liquorice plant (*madhuka, yaṣṭīmadhu*) (and) (2) pounded (*kuttī*) millet (*priyaṅgu*). It will disperse mammary abscesses (*stana-vidradhi*) and fester.

§ 90 (P 2893.184-186)

(1) *dājsaṅḍai ttīma* . (2) *āra* (3) *tcyāñā sūmaṅ* . (5) *aṣṇūha* . *hamaṅgä <vīśtāñä>*³⁵⁴ *naukā ārāñā* (6) *hvi' śvīdanä peṅḍai padīmāñä* . *haṅbva' tcabe'je* . u *hami ttañā haśä* ::

(1) Seed of *dājsaṅḍai*, (2) sweet flag (*vacā*), (3) yeast (*kiṅva*) podwer (and) (4) pigeon (*kapota*) dung (*viṣ*) must be equally (and) finely ground. A poultice (*piṅḍaka*) must be made with (5) human milk (*stanya*). It will scatter fester and (if) swelling arises on the skin (*chavi*).

§ 91 (P 2893.186-189)

³⁵² Bailey: *mije-jūna*.

³⁵³ **stana-vidrradhi* emended by Luzziatti for manuscript *stana-vrridhi*.

³⁵⁴ *hamaṅgä <vīśtāñä>* for ms *hamaṅgä*.

(1) *kāmjsa* . (2) *kāmbā* . (3) *tcyāñā sūmaṃ* . (4) *kuṣṭā* . (5) *gāṇā mījsākā* . (6) *āḍa gūrva* . (7) *sadalūṃ* . (8) *āra* (9) *dr̥rāma ttīma* . (10) *huṣka mūrau* . (11) *aṣṇūha* . (12) *bijūha* . (13) *mūlaṣkīñā* (14) *padīya gaysā virā* (15) *ysaṃbaste . hamaṃgā . vīstāñā . naukā ārrāñā* . (16) *ttīra ñyena ā vā* (17) *āhvarai raysāna ṣi' peṇḍai tcerai . gā'mi . habva . haśā ā'sye haṃdeve* ::

(1) Sesame (*tila*), (2) linseed (*atasī*), (3) yeast (*kiṇva*) powder, (4) costus (*kuṣṭha*), (5) marrow of *guṇāś*, (6) barley semolina (*saktu*), (7) rock salt (*saindhava*), (8) sweet flag (*vacā*), (9) pomegranate (*dādīma*) seeds, (10) dry (*śuṣka*) holy basil (*māluka*), (11) pigeon (*kapota*) dung (*viṣ*), (12) sparrow dung (*viṣ*), (13) *mūlaṣkīñā*, (14) burnt roots of reed (and) (15) garlic (*laśuna*) must be put in equally (and) finely ground. This poultice (*piṇḍaka*) must be made with (16) sour (*amla*, *tikta*, *śukta*) buttermilk (*dadhi*) or alternatively (any) (17) sour juice (*āraṇala*, *amla-kāñjika*). It will ripen internal tumours (*gulma*), festers, swellings, (and) itchings (*kaṇḍū*).

§ 92 (P 2893.189-191)

(1) *śiji āṣkā* . (2) *rūnai* . (3) *mahābāñji . haṃmaṃgā vīstāñā . nauka kūṭāñā* (4) *mākṣīna paḥerāñā . vīranāṃ biṃdā bañāñā haṃbrrauñākā* [[×]]³⁵⁵ *piṇḍai* ::

(1) Drops of jujube (*kola*, *bādara*), (2) Indian madder (*mañjiṣṭhā*), (and) (3) liquorice plant (*madhuka*, *yaṣṭīmadhu*) must be put in equally, finely pounded (*kuṭṭ*), (and) moistened (*bhāvita*) with (4) honey (*mākṣika*). (This) poultice (*piṇḍaka*) must be tied on the wounds (*vraṇa*) as a healer.

§ 93 (P 2893.191-192)

(1) *hāmai* . (2) *śī*³⁵⁶ *bu'* . (3) *gvīhi' rūṃ* . (4) *mauna mūrāñā . ṣi' durṣṭi āsyau bidāṣṭā peṇḍai* ::

(1) Wheat flour (*kaṇikā*), (2) white perfume, (and) (3) cow oil (*ghṛta*) must be rubbed with (4) liquor (*mada*). This poultice (*piṇḍaka*) is (to apply) on itches (*kaṇḍū*) of one bitten.

³⁵⁵ Uncertain. The ms has a blurred *akṣara* after *kā*. Bailey: [*piṃ*].

³⁵⁶ Bailey: *śī*.

§ 94 (P 2893.192-195)

ṣi' vā lūttā³⁵⁷ ā'sī bimḍāṣṭā piṇḍai . (1) avaṣāyaq . (2) gvaī' . (3) rahi' piṇḍā . (4) śīya ba'hau'yā . (5) rrustarā . (6) hinā aṣṇūḥa . hamamḡā vīṣṭāñña kūṭāññā . (7) gvī'hā' rūmna paḥerāññā . ā vā gvī'ha' ysa'yā hīye ucā jsa . ā vā ttraikṣā mauva sauttāna . duṣṭi ā'sī bimḍi baññā ::

The following is the poultice (*piṇḍaka*) (to be placed) on the itch (*kaṇḍū*) from a spider (JP *lūtā*): (1) *avaṣāyaq*, (2) *gvaī'*, (3) *rahi' piṇḍā*, (4) white *ba'hau'yā*, (5) mudar (*arka*) (and) (6) red pigeon (*rakta-kapota*) dung (*viṣ*) must be put in equally, pounded (*kuṭṭ*) and moistened (*bhāvita*) with cow oil (*ghṛta*) or alternatively with water (*ambu, jala, vāri*) of cow's bile or verjuice (*śukta*) of acid liquor (*mada*). (This poultice) must be tied on the itch (*kaṇḍū*) of one bitten.

§ 95 (P 2893.195-196)

(1) padīya būhane (2) dūmi-hauṣṭā gūra . (3) pattaudā gāṇā mījsākā . hamamḡā vīṣṭauññā . kūṭāññā hamṭsā mūrāñña . ṣi' peṇḍai styūdā āsī hamdeve ::

(1) Burnt nut grass (*musta*), (2) smoke-dried (*śuṣka*) grapes (*drākṣā, mṛdvīkā*), (and) (3) roasted marrow of *guṇās* must be put in equally, pounded (*kuṭṭ*) (and) rubbed together. This poultice (*piṇḍaka*) will ripen firm (skin) itching (*kaṇḍū*).

§ 96 (P 2893.196-198)

(1) śī pau hīye ājve . (2) svaṃna-gīrai . (3) pī hamamḡā vīṣṭāññā kūṭāññā hamṭsā mūrāññā . ṣi' piṇḍai nālā-virā jemdā ::

(1) Skins of white onion, (2) red ochre (*kāñcana-gairika*), (and) (3) fat (*medas*) must be put in equally, pounded (*kuṭṭ*) (and) rubbed together. This poultice (*piṇḍaka*) will remove ((°)*sudh*, (°)*han, hṛ*) tubular wound (*nāḍī-vraṇa*).

³⁵⁷ Bailey: *vālūttā*. For the reading *vā lūttā* see Maggi 2018: 253.

§ 97 (P 2893.198-199)

(1) *duṃi-hauṣṭā gūra* . (2) *būhane* . (3) *padīya gāṇāṃ mījsākā* , *haṃaṃgā vīstāñā haṃtsā mūrāñā* . *kūṭṭā ṣi' piṇḍai ysvaurgā āsī naṣkirrdā* ::

(1) Smoked-dried (*śuṣka*) grapes (*drākṣā*, *mṛdvīkā*), (2) nut grass (*musta*), (and) (3) burnt marrow of *guñās* must be put in equally, rubbed together, (and) pounded (*kuṭṭ*). This poultice (*piṇḍaka*) will *scatter suppurating itching (*kaṇḍū*).

§ 98 (P 2893.199-201)

(1) *kapāysā ttīm kūṭṭāñā* . *cvai vā haṃdāna bīśai ysīḍai ysīrakā narāṃe ṣi'* (2) *hvi' ṣvīdānā paḥerāñā* . *rranīkāṃ bidā saṃkhalyāñā* ::

(1) Seed of the cotton plant (JP *karpāsa*) must be pounded (*kuṭṭ*) and, when its yellow (*pīta*) matter inside comes out, it must be moistened (*bhāvita*) with (2) human milk (*stanya*) (and) must be smeared on the skin irritations.

§ 99 (P 2893.201-204)

śe' yaugā . (1) *kūṭṭya rruṣṭārāñā śau śiṃgā* . (2) *kūṭṭye mahābāṃji śau śiṃgā* . (3) *ūtcā śau ṣaṃgā* . *haṃtsā hauña tcerā daṃdā jṣā'ñāñā khū ra va drrai śiṃgā haṃsā thaṃjāñā ysūñāñā ṣi' pēsva utcā hāñā tcerai paskyāṣṭā* . *ū śau śiṃgā hā* (4) *kaḥnai rrūṃ tcerai* . *daṃdā pāchai khu ra va rūṃ harśtā* . *thaṃjāñā rranīkaṃ*³⁵⁸ *jsā gūmalyāñā* . *u kuṣṭā* . *u biśā jāre* ::

Second prescription (*yoga*). (1) Pounded (*kuṭṭ*) *mudar (arka)* grains – one ounce (*prastha*), (2) pounded (*kuṭṭ*) liquorice (*madhuka*, *yaṣṭīmadhu*) – one ounce, (and) (3) water (*ambu*, *jala*, *vāri*) – one *ṣaṃga* must be put together in a vessel. (The whole) must be boiled until three ounces of it remain there. It must be taken out (and) strained. The (still) steaming water (*ambu*, *jala*, *vāri*)

³⁵⁸ Bailey: *rranīka*.

must be put back into the vessel and one ounce of (4) hemp oil (*ghṛta*) must be put in. (The preparation) must be cooked until (only) oil remains, must be taken out, the skin irritations must be besmeared thereby and the skin disease (*kuṣṭha*) and everything will be removed (*ghna, nud, prakṣāṇa*).

§ 100 (P 2893.204-206)

(1) *saunūṣkā . haṃtsä* (2) *hvī svīdāna thāsakāñā daṃdā jṣā'ñāñā . khū haṃtsä haṃbirtte khū drāṃ haṃi khū haṃājā ttī hā* (3) *vasve kāṃjśavīnai rūṃ tcirai . kuṣṭā . āstaṃna rranīkāṃ bidā saṃkhalyāñā jatte ::*

(1) *Saunūṣkā* must be boiled together with (2) human milk (*stanya*) in a vessel until it mixes together so that it becomes such as *haṃājā*. Then (3) pure sesame oil (*taila*) must be put in. (This poultice) must be smeared on irritations due to skin disease (*kuṣṭha*) and so on. It will be cured (*sidh, sukhī bhū*).

ELEVENTH CHAPTER: POULTICES FOR RHEUMATISM

§ 101 (P 2893.207)

.. *tti vā vāśārūṃ va piṇḍā* .

The following (are) poultices (*piṇḍaka*) for rheumatism (*vāta-rakta, anila-rakta*).

§ 102 (P 2893.207-209)

(1) *mahābāṃji* . (2) *ysīdā spyē* . *ttā haṃtsä jṣā'ñāñä* . (3) *ādä* (4) *hāmai* . (5) *gvīhi' saṃnā hamamgä vīstāñä* . *ttye kaṣe'na peṇḍai pāchai u* (6) *rūṃna gūmalyāñä vāśārūṃ vī³⁵⁹ bañāñä* ::

(1) Liquorice plant (*madhuka, yaṣṭīmadhu*), (2) yellow flowers (*pīta-puṣpa*) – these must be boiled together. (3) Barley semolina (*saktu*), (4) wheat flour (*kaṇikā*) (and) (5) cow dung (*gośakṛd*) must be put in equally. A poultice (*piṇḍaka*) must be cooked with this decoction (*kaṣāya, kvātha, sva-rasa*) and mixed with (6) oil (*ghṛta*). It must be tied on the rheumatism (*vāta-rakta, anila-rakta*).

§ 103 (P 2893.209-210)

(1) *laṃgāra³⁶⁰ bāvā* (2) *mahābāṃjä* . (3) *hāmai* . *hamamgä stākä naukä ārāñä* (4) *hvi' ṣvīdāna pāchai* . *vāśārūṃ vī bañāñä* ::

(1) Groundsel root (*rāsnā-mūla*), (2) liquorice plant (*madhuka, yaṣṭīmadhu*) (and) (3) wheat flour (*kaṇikā*) are equally necessary. They must be ground finely (and) cooked with (4) human

³⁵⁹ Bailey: *vī*.

³⁶⁰ The ms has *ra* written below *gä*.

milk (*stanya*). (This poultice) (*piṇḍaka*) must be tied on the rheumatism (*vāta-rakta*, *anila-rakta*).

§ 104 (P 2893.210-213)

(1) *hīśa'* *hīyā rranū*[[×]]*škā*³⁶¹ (2) *śī pau* . (3) *ysīdā* [[×]]³⁶² *spye* . (4) *mahābāṃji* . *tī haṃtsā* [[×]]³⁶³ *jsā'ñāñā* . (5) *kuṃjsā* . (6) *pattaudā hāmai* . (7) *pattaudā āḍā* . *tī pātcā hamaṃgā stākā* . *tīye kaṣe' jsa śi' peṇḍai pāchai u yamai rūṃna gūmalyāñā* . *saṃdveṃna vāsūrūṃ u hasvai jeṃdā* ::

(1) The scrapings of *hīśa'*, (2) white onion, (3) yellow flowers (*pīta-puṣpa*), (4) liquorice plant (*madhuka*, *yaṣṭimadhu*) – these must be boiled together. (5) Sesame (*tila*), (6) roasted wheat flour (*kaṇikā*), (7) roasted barley semolina (*saktu*) – these are then equally necessary. This poultice (*piṇḍaka*) must be cooked with this decoction (*kaṣāya*, *kvātha*, *sva-rasa*) and be mixed with the couple of oils (*ghṛta*). It will remove ((°)*śudh*, (°)*han*, *hṛ*) rheumatism (*vāta-rakta*, *anila-rakta*) and swellings due to a combination (of the three *doṣas*).

§ 105 (P 2893.213-215)

(1) *jīvakā* . (2) *raṣabha*[[×]]*kā*³⁶⁴ . (3) *laṃgara bātā* . (4) *mahābauji* . (5) *u'stā bāva* . (6) *saḥa bāta* (7) *ciruttā* . *haṃaṃgā stā*[[×]]*kā*³⁶⁵ . *naukā kuṭāñā* . *ṣvī'da jsā peṇḍai pāchai* . *haṃarvā vāsūrūṃ jidā* ::

(1) *jīvaka* (*jīvaka*), (2) *ṛṣabhaka* (*ṛṣabhaka*), (3) groundsel root (*rāsnā-mūla*), (4) liquorice plant (*madhuka*, *yaṣṭimadhu*), (5) hogweed (*punarnavā*, *varṣābhū*, *vṛścīva*) root (*mūla*), (6) sida root (*balā*) (7) beeswax (*siktha*) are equally necessary. They must be finely pounded (*kuṭṭ*). The

³⁶¹ Uncertain. The ms has a deleted *akṣara* after *nū*. Bailey: *rranū[ṣṭā] škā* with fn. 'ṣṭā blurred'.

³⁶² Uncertain. The ms has a deleted *akṣara* after *dā*. Bailey: [*spye*] *spye* with fn. 'spye blurred'.

³⁶³ Uncertain. The ms has a deleted *akṣara* after *tsā*. Bailey: [×] with fn. 'Blurred syllable'.

³⁶⁴ Uncertain. The ms has a deleted *akṣara* after *bha*. Bailey: *raṣabha[ka] kā* with fn. 'ka blurred'.

³⁶⁵ Uncertain. The ms has a deleted *akṣara* after *stā*. Bailey: *stā[×]kā*.

poultice (*piṇḍaka*) must be cooked with milk (*kṣīra*). It will remove ((°)*śudh*, (°)*han*, *hr*) rheumatism (*vāta-rakta*, *anila-rakta*) in the joints (*saṃdhi*).

§ 106 (P 2893.215-218)

(1) *mida* . (2) *mahā-midä* . (3) *kākauṭä* . (4) *kṣīra-kākauṭä* . (5) *jīvaka* . (6) *raṣabhakä* . (7) *mūdgä-parṇä* . (8) *māṣa-parṇä* . (9) *jīva[[ttä]]*³⁶⁶ . (10) *mahābām̐ji* . *haṃam̐gä śtākä* . *nauka āṛāññä* . (11) *cirūttāna* . (12) *gvīhi'*: *rūṃna u* (13) *ṣvīdä* . *ṣi' piṇḍai tcirai haṃmirvā baññāññä* . *vāsārūṃ jīṃdä u haṃmirvā vīne* ::

(1) *Medā* (*medā*), (2) Indian coral tree (*mahā-medā*), (3) *kākolī* (*kākolī*), (4) *kṣīra-kākolī* (*kṣīra-kākolī*, *kākolī-dvaya*), (5) *jīvaka* (*jīvaka*), (6) *ṛṣabhaka* (*ṛṣabhaka*), (7) wild green gram (*mudga-parṇī*) (8) wild black gram (*māṣa-parṇī*), (9) *jīvantī* (*jīvantī*), (10) liquorice plant (*madhuka*, *yaṣṭīmadhu*) are equally necessary. They must be ground finely. This poultice (*piṇḍaka*) must be made with (11) beeswax (*siktha*), (12) cow oil (*ghṛta*), and (13) milk (*kṣīra*) (and) tied on the joints (*saṃdhi*). It will remove ((°)*śudh*, (°)*han*, *hr*) rheumatism (*vāta-rakta*, *anila-rakta*) and pains in the joints (*saṃdhi*).

§ 107 (P 2893.218-221)

(1) *gvī'hi'* <*rrūṃ* .>³⁶⁷ (2) *kām̐jsavīnai rrūṃ* . (3) *mijsā* . (4) *pī* . (5) *īraṃde* . (6) *kuṃjsa* , (7) *kapāysä ttī* (8) *hīysāmau* . (9) *bātā* . (10) *kuṣṭā* (11) *āra* . (12) *halaidrā* . (13) *aṃguṣṭi* , (14) *suttā* . *ūtca* . (15) *hāmai* . *biśā haṃam̐gä vīstāññä naukā kūṭāññä* . *ṣi' piṇḍai haṃmarvā baññāññä* . *vāsārūṃ jeṃdä*: ::

(1) Cow oil (*ghṛta*), (2) sesame oil (*taila*), (3) marrows (*majja*), (4) fat (*medas*), (5) castor-oil plant (*eraṇḍa*), (6) sesame (*tila*), (7) cotton plant (JP *karpāsa*) seed, (8) coriander (*dhānyāka*) (9) new wine, (10) costus (*kuṣṭha*), (11) sweet flag (*vacā*), (12) turmeric (*haridrā*), (13) asa foetida (*hiṅgu*), (14) verjuice (*śukta*) water (*ambu*, *jala*, *vāri*), (15) wheat flour (*kaṇikā*) must all

³⁶⁶ The ms has a blurred *akṣara*. Bailey: [ttä] with fn. 'ttä blurred'.

³⁶⁷ *gvī'hi'* <*rrūṃ* .> for ms *gvī'hi'*.

be put in equally (and) pounded (*kuṭṭ*) finely. This poultice (*piṇḍaka*) must be tied on the joints (*saṃdhi*). It will remove ((°)*śudh*, (°)*han*, *hṛ*) rheumatism (*vāta-rakta*, *anila-rakta*).

§ 108 (P 2893.221-223)

(1) *aśvagandha* . (2) *pvā'sū tcāra* . (3) *khyerā tcārā* . (4) *ulīṇā tcārā* . (5) *tharkā mījsā* . (6) *īraṃde* . (7) *haṃga* . *biśa haṃgaṃgā śtākā kūṭāñā* . *ttyau arvyau jsā ṣī' peṃḍai pāchai* . *kūṣṭā haṃmarvā vīṇa īṃde*³⁶⁸ . *vara bañāñā jihāre* ::

(1) Winter cherry (*aśvagandhā*), (2) pig (*vārāha*) fat (*vasā*), (3) ass fat (*vasā*), (4) camel (*auṣṭra*) fat (*vasā*), (5) walnut kernels (JP *akṣoṭa*), (6) castor-oil plant (*eraṇḍa*), (7) bladder sorrel (*amalavetasa*) are all equally necessary. They must be pounded (*kuṭṭ*). From these drugs this poultice (*piṇḍaka*) must be cooked. Where there are pains in the joints (*saṃdhi*), there it must be tied. They will be cured (*sidh*, *sukhī bhū*).

§ 109 (P 2893.223-224)

(1) *khyera saṃna* . (2) *namva* (3) *mau* . (4) *rūṃ* . *haṃtsā ūysūyāñā*³⁶⁹ . *āyvāñā* . *grāṃ grāṃ haṃmarrvā bañāñā vāsārūṃ jeṃḍā* ::

(1) Ass dung (*viṭka*, *viṣ*, *śakṛt*), (2) salt (*lavaṇa*), (3) liquor (*mada*), (and) (4) oil (*ghṛta*) must be strained together (and) heated. (This poultice) must be tied quite warm (*uṣṇa*) on the joints (*saṃdhi*). It will remove ((°)*śudh*, (°)*han*, *hṛ*) rheumatism (*vāta-rakta*, *anila-rakta*).

§ 110 (P 2893.224-225)

(1) *kāṃjsa ārāñā* (2) *ṣvī'dana pāchai kūṣṭā haṃirvā vīṇa varā bañāñā vāsārūṃ va piṃḍai* ::

³⁶⁸ Bailey: *īde*.

³⁶⁹ Bailey: *ū(ci) ysūyāñā*.

(1) Sesame (*tila*) must be ground (and) cooked with (2) milk (*kṣīra*). Where (there are) pains in the joints (*saṃdhi*), there it must be tied. (This is) a poultice (*piṇḍaka*) for rheumatism (*vāta-rakta, anila-rakta*).

§ 111 (P 2893.225-226)

(1) *gṇaṇaṃ kūṭāñña . u* (2) *mahābāṃji . haṃaṃgā vīstāñña u* (3) *hvī'³⁷⁰ ṣvī'danā pāchai . hamarvā baññā . vāsārūṃ va piṇḍai ::*

(1) Wheat (*godhūma*) must be pounded (*kuṭṭ*) and (2) liquorice plant (*madhuka, yaṣṭimadhu*) must be put in equally and (the whole) must be cooked with (3) human milk (*stanya*). It must be tied on the joints (*saṃdhi*). (This is) a poultice (*piṇḍaka*) for rheumatism (*vāta-rakta, anila-rakta*).

§ 112 (P 2893.226-228)

(1) *kaujsa .* (2) *kāṃbā .* (3) *rrīysū bisā haṃaṃgā stākā . kūṭāñña .* (4) *namvena ṣi' peṇḍai pāchai . haṃarrvā vāsārūṃna jimḍā³⁷¹ ::*

(1) Sesame (*tila*), (2) linseed (*atasī*), (and) (3) rice (*taṇḍula, śāli*) are all equally necessary. They must be pounded (*kuṭṭ*). This poultice (*piṇḍaka*) must be cooked with (4) salt (*lavaṇa*). It will remove ((^o)*śudh*, (^o)*han*, *hṛ*) rheumatism (*vāta-rakta, anila-rakta*) in the joints (*saṃdhi*).

§ 113 (P 2893.228-229)

(1) *traulā .* (2) *śīlājatti .* (3) *aśvāgaṃdhā . . haṃaṃgā naukā ārāñña . gitsīrñña . bājinañña: jṣā'ññā . khu baysgā³⁷² haṃe vara saṃkhalyāñña . kuṣṭā vīṇa īṇde . vāsārūṃ jimḍā ::*

³⁷⁰ Bailey: *hvī'*.

³⁷¹ Bailey: *jiṃ . dā*.

³⁷² Bailey: *haysgā*.

(1) Turpeth (*trivṛt*), (2) molten ore (*śilājatu*) (and) (3) winter cherry (*aśvagandhā*) in equal measure must be finely ground (and) boiled in a gypsum vessel (*pātra*). When (this poultice) becomes thick, it must be smeared there where there are pains. It will remove ((°)*śudh*, (°)*han*, *hṛ*) rheumatism (*vāta-rakta*, *anila-rakta*).

§ 114 (P 2893.230-231)

(1) *kāmjsa kūṭāñā* . (2) *kāmjīna* . ā vā (3) *bīśīñā vara saṃkhalyāñā* . *kuṣṭā vīna īṇde* . *vāsārūṃ jīṃdā* ::

(1) Sesame (*tila*) must be pounded (*kuṭṭ*) (and) smeared with (2) sour gruel (*kānjika*, **sauvīra*) or with (3) buttermilk there where there are pains. It will remove ((°)*śudh*, (°)*han*, *hṛ*) rheumatism (*vāta-rakta*, *anila-rakta*).

§ 115 (P 2893.231-233)

(1) *drṛāma* . (2) *hāmai* . (3) *saṃdalūṃ* . (4) *gvīhā rūṃ* . (5) *kāmjsavīnai rūṃ* . (6) *ganānai bā* . *haṃmaṅgā śtākā* . *hatsā kuṭāñā* . *greña bājinañā jṣā'ñāñā*³⁷³ . *baysgā saṃkhalyāñā* . ā-v-aṃ *jsā* . *peṇḍai padīṃāñā* . *vara bañāñā* . *kūṣṭā vīne* . *vāsārūṃ jīṃdā* ::

(1) Pomegranate (*dādīma*), (2) wheat flour (*kaṇikā*), (3) rock salt (*saindhava*), (4) cow oil (*ghṛta*), (5) sesame oil (*taila*) (and) (6) fetid dill (*śatapuspā*) are equally necessary. They must be pounded (*kuṭṭ*) together, boiled in a clay vessel (*pātra*) (and) smeared thickly (on the patient) or a poultice (*piṇḍaka*) must be made with them (and) tied there where (are) pains. It will remove ((°)*śudh*, (°)*han*, *hṛ*) rheumatism (*vāta-rakta*, *anila-rakta*).

³⁷³ Bailey: *jṣā'ñāñā*.

TWELFTH CHAPTER: POULTICES AND PRESCRIPTIONS OF ALL AND EVERY KIND

§ 116 (P 2893.234)

. . *viña ttā bīsūñā . bīsūñā . piṇḍā hvāñāre . u yaugā ::*

Now poultices (*piṇḍaka*) and prescriptions (*yoga*) of all and every kind are explained to you.

§ 117 (P 2893.235-239)

(1) *kahā:*' (2) *kāṃjsa* . (3) *kāṃbā* . (4) *pattaudā hāmai* . (5) *pattaudā vi'yaji* . (6) *hauṣkyā ttrahe . biśā haṃmaṅgā śtākā . u āṛāñā paherāñā . u naṣīyūṃ jsā pāchai . u ttī ṣi' naṣī . paskyāṣṭā āṛāñā . ysūnāñā* (7) *ttīra ṇenaṅ jsā pattrūṣa pāchai . u na āṇa hā*³⁷⁴ (8) *anarva māśa'kā tcerā . u* (9) *drāma ṣikā . ū* (10) *ahi: ṣi' vā dāttā . hauji pajsāñā . āṛāñā . hā tcirā ṣi' pattrūṣa hverai avīysārā bañe ::*

(1) Hemp, (2) sesame (*tila*), (3) linseed (*atasī*), (4) roasted wheat flour (*kaṇikā*), (5) roasted *vi'yaji* (and) (6) dry radishes (*śuṣka-mūlaka*) are all equally necessary and must be ground, moistened (*bhāvita*) and a *naṣī* must be cooked with them and then this *naṣī* must be ground again. (The whole) must be strained, a *pattrūṣa* must be cooked with (7) sour (*amla*, *tikta*, *śukta*) buttermilk (*dadhi*) and (8) unburst jequirity (*śārṅgaṣṭā*) must be put in from below (*adhas*) and (9) a small pomegranate (*dāḍīma*) and (10) *ahi*, that is wild croton (*dantī*), must be cooked *hauji*, ground (and) put into it. This *pattrūṣa* must be consumed (*ad*, *pralih*). It will stop diarrhoea (*aṭīsāra*).

§ 118 (P 2893.239-240)

³⁷⁴ Bailey: *u na āṇahā*.

*śau kabā (1) sperka jṣā'ñāñä . ttilakä hä (2) gvī'ha' rūṃ tcerā u (3) māksī . khāsāñä phāhā:'
uysañä āphārä jeṃdä ::*

One *kaba* of (1) fenugreek (JP *sprkkā*) must be boiled (and) a little (2) cow oil (*ghṛta*) and (3) honey (*māksika*) must be put into it. (This preparation) must be drunk. It will remove ((°)*śudh*, (°)*han*, *hṛ*) cough (*kāsa*) (and) disturbance of the breath (*śvāsa*).

§ 119 (P 2893.240-241)

(1) rrustirāñä cipañāñä kamä'ñä bañāñä paysau pettä . jīye utcī narāme ::

(1) Mudar grains must be crushed (and) tied on the head (*mūrdhān*). The *paysau* will fall (and) disappear (*ghna*, *nud*, *prakṣāṇa*), (and) the liquid (*ambu*, *jala*, *vāri*) will come out of it.

§ 120 (P 2893.241-244)

*(1) ttīrā ahauḍā hīye ttīme . (2) laṣaṃgä . (3) byārā bana . (4) jilābhaṃgä . tti bisā haṃaṃgä
vīstāñä . kūṭāñä grāṃye ūci jsä haṃthrrajāñä . u dva drrai jūna tta tta ysūñāñä . khū va hera vī
kalamakyä na hatsīṃdä³⁷⁵ . śau vasī haṃbāyi khāsā'ñä pe'jsä baṃqāñe ::*

(1) Seeds of bitter (*amla*, *tikta*, *śukta*) bottle-gourd (*alābu*), (2) cloves, (3) *bana* of melon (*ervāruka*), (and) (4) acute-angled cucumber (*jālini-phala*) – all these must be put into it equally, pounded (*kuṭṭ*), squeezed with warm (*uṣṇa*) water (*ambu*, *jala*, *vāri*), and these must be strained two or three times so that no *kalamakyä* pass through at all there. The amount of one *vasīya* must be drunk (and) vomited (*ullekhana*, *chardana*, *chardī*) forcibly.

§ 121 (P 2893.244-245)

(1) mauva sauttana hu'gä bīna³⁷⁶ padīmāñä ṣūñyā³⁷⁷ bañāñä . maṃgārā ṣūñā³⁷⁸ rrāhi' : jeṃdä ::

³⁷⁵ Bailey: *ha tsīṃdä*.

³⁷⁶ Bailey: *būna*.

A *būna* must be made soft with (1) verjuice (*śukta*) of liquor (*mada*) (and) must be tied on the loins. (This poultice) will remove ((°)*śudh*, (°)*han*, *hṛ*) pain in the loin(s) of an old (patient) (*purāṇa*).

§ 122 (P 2893.245-249)

cu paijvā vīṇa u maysdārvā . vīṇā śai' va painḍai . (1) ysarūṃ māṃgā . naukā āṛāṇā ysūṇāṇā śau bāgā śi' vīśtāṇā³⁷⁹ (2) ysālva (3) mahābāṃjā . (4) sijsaṇā spyē . (5) kujsa . tti pātcā hamāṃgā vīśtāṇā . naukā āṛāṇā haṃbrīhāṇā (6) khyera śvīdāna³⁸⁰ . piṇḍai padīmāṇā . pāchai . (7) gvīhā' . rūṃna gūmalyāṇā . paijvā baṇḍāṇā audā svāmilau vī būre . ysair-banvā vīṇa jīṃdā ::

When (there are) pains in the breasts and pains in the nipples, this is the poultice (*piṇḍaka*) for that: (1) green bean must be finely ground, strained, (and) one portion of this must be put into it; (2) Indian barberry (*dārvī*, *pīta-dāru*), (3) liquorice plant (*madhuka*, *yaśṭīmadhu*), (4) *sijsānā* flowers, (and) (5) sesame (*tila*) – these must then be put into it equally, finely ground, (and) mixed with (6) ass milk (*kṣīra*). A poultice (*piṇḍaka*) must be made, cooked, (and) mixed with cow oil (*ghṛta*). It must be tied on the breasts up to the shoulders (*aṃsa*). It will remove ((°)*śudh*, (°)*han*, *hṛ*) pains in the regions near the heart.

§ 123 (P 2893.249-250)

cu pe'jsā ttarā . tye sé'ye haḍai (1) yaṃmai rrūṃna (2) cegāṃ būśāṇai paśāṇā ttarī jīye ::

When (there is) strong thirst (*tarṣa*, *trṣṇā*), on the second day (2) perfume of the Chinese must be released with (1) the couple of oils (*ghṛta*). Thirst (*tarṣa*, *trṣṇā*) will disappear (*ghna*, *nud*, *prakṣīṇa*) for one.

³⁷⁷ Bailey: *śūṇyā*.

³⁷⁸ Bailey: *śūṇā*.

³⁷⁹ Bailey: *vīśtāṇā*.

³⁸⁰ Bailey: *śvīdāna*.

§ 124 (P 2893.250-254)

(1) *kujsa* . (2) *hauska gūra* . (3) *mahābāṃjā* . (4) *āḍā hāmai* . *hamamṅā* . *vīśtāñā* . *ārāñā mauna*
ṣī' piṃḍai pāchai . (5) *śī' pau* . *phaji pajsāñā bīcāñāñā u tye peṇḍai bidā starāñā* . (6) *gvī'ha*
rūna gūmilyāñā . *brrehā:*' *biṃḍā bañāñā* . *brraha rāhā'* *jimḍā* . *tī kami'ña bañī kamala rrāhā'*
jeṃḍā bīna hū{na}ñā vasūje ::

(1) Sesame (*tila*), (2) dry (*śuṣka*) grapes (*drākṣā*, *mṛdvīkā*), (3) liquorice plant (*madhuka*,
yaṣṭīmadhu), (4) barley semolina (*saktu*) (or) wheat flour (*kaṇikā*) must be put into it equally
(and) ground. This poultice (*piṇḍaka*) must be cooked with liquor (*mada*). (5) White onion
must be cooked in glowing coals, broken up and strewn on this poultice (*piṇḍaka*). It must be
mixed with (6) cow oil (*ghṛta*) (and) tied on the back: it will remove ((°)*śudh*, (°)*han*, *hṛ*) pain
in the back. Then one may bind it on the head (*mūrdhān*): it will remove ((°)*śudh*, (°)*han*, *hṛ*)
headache (*śīro-ṛti*) (and) purify wind-blood.

§ 125 (P 2893.254-257)

(1) *paṃjalau* . (2) *kuṣṭi* . (3) *āra* . (4) *punarnava* . (5) *tāgarā* . (6) *devadārā* , (7) *ṣala* . (8) *kujsa* .
(9) *kāmbā* . (10) *śaśvāṃ* . (11) *īraṃde*³⁸¹ . *biśā haṃamṅā vīśtāñā* . (12) *gvī'hā:*' *rūṃ* . (13)
kujsavīnai rrūṃ . (14) *mau* . (15) *ṣvīdā* . (16) *ñye* . *biśā pātcā haṃamṅā* . *śtākā* . *haṃtsā*
haṃbrīhāñā ṣī' peṃḍai pāchai . *āhusāñe bināṃ*³⁸² *āchāṃ vī biśā vī haṃbūsaṃ* ::

(1) Bell metal (*kāṃsa*), (2) costus (*kuṣṭha*), (3) sweet flag (*vacā*), (4) hogweed (*punarnavā*), (5)
ginger (*ādraka*, *nāgara*, *viśvā*), (6) deodar (*devadāru*), (7) zedoary (JP *ṣaḍī*), (8) sesame (*tila*),
(9) linseed (*atasī*), (10) mustard ((*śveta*-)*sarṣapa*, *siddhārtha*), (and) (11) castor-oil plant
(*eraṇḍa*) must all be put in equally. (12) Cow oil (*ghṛta*), (13) sesame oil (*taila*), (14) liquor
(*mada*), (15) milk (*kṣīra*), (and) (16) buttermilk (*dadhi*) are then all equally necessary (and)

³⁸¹ Bailey: *īraṃde*.

³⁸² Bailey: *bi* . *nāṃ*.

must be mixed together. This poultice (*piṇḍaka*) must be cooked. It will make sweat (*presveda*, *sveda*, *svedana*, *svinna*). It is suitable for wind diseases (*māruta-roga*, *anila gada*) everywhere.

§ 126 (P 2893.257-258)

(1) *ttrahāṃ* (2) *padīyāṃ baṇījāṃ grūṣkyāṃ hīvī kṣārā nauka ārāññā* . (3) *tīra ñena paḥerāññā* . *ṣi' piṇḍai ysaunvaññā* . *hasvai jimḍā* ::³⁸³

(1) Alkali (*kṣāra*) from radishes (*mūlaka*) (and) (2) (alkali from) burnt oak barks (*tvac*) must be finely ground (and) moistened (*bhāvita*) with (3) sour (*amla*, *tikta*, *śukta*) buttermilk (*dadhi*). This poultice (*piṇḍaka*) must be strained. It will remove ((°)*śudh*, (°)*han*, *hṛ*) swellings.

§ 127 (P 2893.258-259)

(1) *gvīhā'*: *ṣū raṇāññā cu pe'jsā haikā* . *ttye ranūṣkyāññā padvāññā*³⁸⁴ . *khvai ṣa' dumi ehi haysgvā ttrāme jatte* ::

(1) Cow horn (*viṣāṇa*) must be scraped. When (there is) strong hiccough (*hikkā*), (the patient) must be fumigated with this scraping, so that the smoke enters the mouth (*āsya*, *vadana*) and the nostrils (*nāvana*). He will be cured (*sidh*, *sukhī bhū*).

§ 128 (P 2893.260-267)

(1) *ysīdā spyē* . (2) *mahābāṃji* . *tī śau śau serā śtākā* . *ysīra kūṭāññā* . *u drrai śigā ucāna [da]dā jṣā'ñāññā khu śva' jīye tī askināññā*³⁸⁵ *paskyāṣṭā hāññāṣṭā* . *ysūñāññā* . *ttī* (3) *kujsa* (4) [*. kuṃ*]bā³⁸⁶ .

³⁸³ Bailey does not record :: .

³⁸⁴ Bailey: *padvāññā*.

³⁸⁵ Bailey: *askināññā*.

³⁸⁶ Bailey: <...> *bā*.

*śā śā [hā]dä³⁸⁷ vīstāñā³⁸⁸ . naukā ārāñā . hā tcerā tte ucāna pāchai u ttilakā . [hā +] da na ji³⁸⁹
 (5) hāmai vamathāñā śi' piṇḍai padīmāñā hu'gā . (6) gvī'hā' rūmna . gūmalyāñā [biṇḍai (7) +
 +J³⁹⁰ (8) ārrdā hauṣka ysvālva parkūñā . ttai vā bu'jsai haijā haṣā jidā . ttauda . hūñā va [+ +
 + +] bāva niṣaiṃe . vīnām bidā vīna jīmḍā . u ci³⁹¹ ttī drām tciña rāhā' hāmāve . cu ṣṣī[ve + +
 +] i³⁹² ysai tcime'ña ṣaidā . u haune streha hāmāre . u heṃja hāmāre . u raijsai [+ ysai ysai
 uJ³⁹³ pe'sā' hā . paidai nīśāñā . hauda haṣṭā jūm grām grām . tcaura piṇḍakā padī[me]*

(1) Yellow flowers (*pīta-puṣpa*), (2) liquorice plant (*madhuka, yaṣṭīmadhu*), these are necessary one ounce each. They must be roughly pounded (*kuṭṭ*) and boiled with three ounces (*prastha*) of water (*ambu, jala, vāri*) until a half disappears (*ghna, nud, prakṣāṇa*). Then (the decoction) must be taken out (and) strained back into the vessel. Then (3) sesame (*tila*) (and) (4) linseed must be added, but one by one – they must be finely ground – (and) must be put in. (The whole) must be cooked with that water (*ambu, jala, vāri*) and a little of ... (5) wheat flour (*kaṇikā*) must be kneaded (*vimath*) into it. This poultice (*piṇḍaka*) must be made soft. It must be mixed with (6) cow oil (and) ... (8) ground dry (*śuṣka*) Indian barberry (*dārvī, pīta-dāru*) must be sprinkled (on it).

These are its virtues: it will remove ((°)*śudh, (°)han, hṛ*) red (*aruṇa, rakta*) swelling; (used) hot (*uṣṇa, dāha*), it extinguishes ... wind in the blood (*asra, rakta, śoṇita*); it removes ((°)*śudh, (°)han, hṛ*) pains in the aching parts (of the body); and when then such pain should arise in the eye (*akṣi*) (and) if in the night ... in the morning the eyes cling and the eyelids become stiff and become red (*aruṇa, rakta*) and sharp (*tīkṣṇa*), (this) poultice (*piṇḍaka*) must be inserted while quite warm (*uṣṇa*) seven or eight times in the morning and evening. (This) poultice (*piṇḍaka*) produces four (effects).

³⁸⁷ Bailey: (*ā*)*dä*.

³⁸⁸ Bailey: *vīstā[×]ñā*.

³⁸⁹ Bailey: <...> *danaji*.

³⁹⁰ Bailey: <...> ×.

³⁹¹ Bailey: *uci*.

³⁹² Bailey: <...>-*e*.

³⁹³ Bailey: <...> ×.

COMMENTARY

1. First chapter: Poultices for the eyes

The first chapter of the *Piṇḍaśāstra* (§§ 1-8) is devoted to the treatment of eye-diseases. Five different types are described, due to deranged wind (LKh. *bāti-*), bile (LKh. *petta-*), phlegm (LKh. *śliṣma-*), blood (LKh. *hūñi-*), and all the three *doṣas* together (LKh. *saṃdvāta-*). The eye-disease caused by wind (§ 4) is said to manifest mainly in the evening and to be characterised by pain and inability of seeing clearly and opening the the eyelids freely. When bile and blood are disturbed (§ 5), the symptoms occur at midday, the patient's eyes are red and aching, and his view is yellowish, perhaps due to some kind of secretion. The eye-disease due to phlegm (§ 6) appears in the morning, is painful and is characterised by itching and heavy eyes, that cling to the eyelids and impair the patient's vision. As for the disorder brought about the three *doṣas* (§§ 2 and 7), the author does not provide the description of this type of disease, but most likely exhibits a combination of the symptoms mentioned above.

The *Suśrutasamhitā*, among the earliest Āyurvedic texts, extensively analyses the diseases affecting the eye region. The first nineteen chapters of the *Uttaratantra* are, in fact, devoted to the description of the aetiology, classification, and treatments of disorders of the eyelids, junctures, white and black portions of the eye, pupil, and whole eye.

§ 1

biśūñām: For the adjective *biśśūnia-* 'of all kinds, varied' (< *biśśa-* 'all' and OIr. **gauna-* 'kind' with the composition suffix *-ia-*) see *Dict.* 290 and Degener *Suffixe* 122, 124-125.

§ 2

saṃdvena: Kh. *saṃdvāta-* ('combination (of all the three *doṣas* in one and the same location)') is a LKh. loanword from Gāndh. *sannipāta-* < Skt. *saṃnipāta-*. In a medical context, this term

refers to ‘a complicated derangement of the three *doṣas* or an illness produced by it’.³⁹⁴ One of the earliest discussion about *saṃnipāta* is found in *Carakasamhitā*, *Vimānasthāna* 6.10, where the author explains as follows:

*(prāyaḥ) sārīradoṣāṇāmekādhiṣṭhānīyānāṃ sannipātaḥ
saṃsargo vā samānaguṇatvāt; doṣā hi dūṣaṇaiḥ samānāḥ ||*

‘(Often) the bodily *doṣas* situated in one location combine together by either *sannipāta* (combination of all the three *doṣas* together) or *saṃsarga* (combination of two *doṣas* together) because of having similar properties; *doṣas* are similar to the vitiating factors.’³⁹⁵

Although not very frequent in LKh. medical texts, this word occurs three times in the PiŚ and two in Si. In the first treatise *saṃdvāta* seems to be the cause of pain in the eyes (§ 2 *tcimṇa rāhā*), swellings and rheumatism (§§ 20 *saṃdvemna haśā*, 104 *saṃdvemna vāsārūṃ u hasvai*). On the other hand, in the Si 14.1 (Ch. 104v5) *saṃdvāta* gives rise to ‘yellow disease’ (*ysīḍai āchai*, Skt. *pāṇḍu-roga*³⁹⁶) in the following way:

*ṣi’ pā drrayāṃ dūṣāṃ’ vī hva hva śe śe dūṣā’ jsa hame saṃdvimṇā haṃbirstāṃ
dūṣāṃ jsa hamye likā hīya piṣkici āstaṃna tcau-padya hame*

‘It then arises due to each single humour separately in the case of the three humours and (when those three varieties are added to) the variety that has arisen due to a combination, (that is) due to the (three) humours combined, it becomes fourfold.’³⁹⁷

Additionally, the term is found in Si 3.20.11 (Ch. 17r3-4), where the consumption of sparrow meat is recommended against *saṃnipāta* diseases (*sadvinā āchai*):

cu biṃji hīya gūṣṭa ṣe’ sadvinā āchai jināka śilīṣāṃ u sūkrrā huṣqānāka

³⁹⁴ MW 1147, s.v. *saṃnipāta*.

³⁹⁵ Translation by Sharma 2014: 1.336.

³⁹⁶ ‘jaundice’ MW 616.

³⁹⁷ Emmerick’s unpublished critical text and translation.

‘As for the flesh of the sparrow, it (is) a remover of disease due to a combination (of the humours), an increaser of phlegm and semen’³⁹⁸

From the phonological point of view, it should be noted that *saṃdvāta* has a clear Gāndhārī appearance, rather than Sanskrit. Similarly to *dūvara-* (‘dropsy’ §§ 12, 22 61),³⁹⁹ *saṃdvāta* is in fact one of the specialised technical terms that reached the Khotanese medical vocabulary through a Middle Indian intermediary. The evidence that supports a Gāndhārī origin is visible in the Old Khotanese form of the word. In fact, an OKh. *-saṃdävāta-*, *-sandävāta-* is already attested at an earlier stage of the language⁴⁰⁰. The OKh. *-nd-* cluster mirrors an unattested Gāndh. **saṃdivada-* (that must be reconstructed beside literary *saṃnipada*) with hypercorrect *-ṃd-* for OInd. *-ṃn-*, because, as illustrated already by Brough, both OInd. *-ṃn-* (i.e. *-nn-*) and *-nd-* resulted in Gāndh. *-(ṃ)n-*.⁴⁰¹ Accordingly, it is possible to reconstruct the development of the word from an OInd. *saṃnipāta-* > Gāndh. **saṃdivada-* → OKh. *°sandävāta-* > LKh. *saṃdvāta-*.

The LKh. instr.-abl. ending *-eṃna* (with the variant spellings *-ena*, *-i(ṃ)na*) of *saṃdvena* comes from an OKh. *-ātāna*. As in the OKh. word *hvatānaa-* ‘Khotanese’ > LKh. *hvaṃnaa-*, the loss of the glottal stop, marked orthographically through *-t-*, results in the *anusvāra -ṃ-*.⁴⁰² Furthermore, the *-e-* in the ending of *saṃdvena* should be regarded as a variant spelling for *-ai-* (cf. **-ā-āna* > *-aina* in the monosyllabic *-āa-* declension).⁴⁰³ The path of development is, thus, OKh. **-ātāna* [a:ʔəna] > [aiʔna] > LKh. *-eṃna* [ẽna].

§ 3

phaja and **phaja-vaha**: For the meaning of *phaja* ‘glowing coals’ see *Studies* 1.80-81. Differently from Bailey,⁴⁰⁴ on account of the voicing and fricativisation *p* > *b* > *v* in *-vaha* I

³⁹⁸ Emmerick’s unpublished critical text and translation.

³⁹⁹ See Luzziatti 2022: 229-235.

⁴⁰⁰ Maggi 2017: 119.

⁴⁰¹ Cf. Brough 1962: 97–98 §§45-46, 100 §47.

⁴⁰² Cf. Dresden 1955: 407.

⁴⁰³ SGS 305.

⁴⁰⁴ *KT* 3.84 and 89.

consider LKh. *phaja-vaha-* a compound, where the second component *vaha-* is the ppp. (*paha*) of the verb *pajs-* ‘to cook’,⁴⁰⁵ hence ‘cooked in glowing coals’.

§ 4

vimath- ‘to crush, churn’: As was mentioned in the introduction, the *Piṇḍasāstra* shares some characteristics with the so-called *Piṇḍasaptaka*, preserved in folio 100 of the Ch. ii.002, the *pustaka* manuscript containing the Khotanese *Siddhasāra*. The *Piṇḍasaptaka* belongs to an unidentified medical and so far untranslated text of Āyurvedic tradition. These two collections of prescriptions have in common a similar vocabulary, style and phraseology. The use of *vīstāñā-*, part. nec. from *vimath-*, in the prescriptions is one of such parallels.

The verb *vimath-* has been found only in the *Piṇḍasāstra*, where it occurs four times (§§ 4, 17, 54, 128), and once in the *Piṇḍasaptaka* (v2 *vimathāñā*). In his *Dictionary*, Bailey considers *vimath-* a verb of Iranian origin,⁴⁰⁶ apparently with a preverb *vi-* < OIr. **vi-*⁴⁰⁷ and the verb *manth-* ‘to agitate’⁴⁰⁸ < OIr. **manθ-*. As already supposed by Emmerick, who proposes the translation ‘tear off’,⁴⁰⁹ *vimath-* is more likely to be a loanword from Skt. *vi-math-*. One of the meanings of Skt. *vi-math-* is ‘to break or cut in pieces’,⁴¹⁰ which seems to better suit the context. However, it is interesting to notice that in the *Piṇḍasāstra* the Late Khotanese verb *vimath-* always refers to *hāmaa-* ‘wheat flour’ and describes the final step of the recipes, in which flour must be added to the previously processed ingredients. The verb probably refers to the action of kneading, (Skt. *ma(n)th*),⁴¹¹ together all the components of the poultice in order to create a creamy substance. I hence decided to translate the LKh. verb *vimath-* as ‘to knead’.

hāmaa- ‘wheat flour’: For *hāmaa-* ‘wheat flour’ see *Studies* 1.128-129.

⁴⁰⁵ Cf. SGS 65.

⁴⁰⁶ *Dict.* 375, s.v. *vamath-*.

⁴⁰⁷ Cf. SGS 241 for the preverbs.

⁴⁰⁸ SGS 108.

⁴⁰⁹ SGS 123.

⁴¹⁰ MW 979.

⁴¹¹ Cf. Mayrhofer 1996: 2.311-312, s.v. *manth*¹ and Cheung 2007: 264, s.v. **manθH*.

hāne ‘eyelids’: For *hānā-* ‘eyelids’ see Emmerick and Róna-Tas 1992b: 217 and *Dict.* 477, s.v. *hāṃnā-*. This word occurs in the Turkish-Khotanese wordlist preserved in ms P2892 and corresponds to Turkish *kīrāpīkā* /kirpik/.

ttīlaka- ‘a little’: *ttīlaka-* is attested only in the *Piṇḍasāstra* (§§ 4, 118, and 128). The proximity with other ingredients in all the three occurrences and the similarity with *ttīla*, a loanword from a Prakritic form of Skt. *taila* ‘sesamum oil’⁴¹², may suggest that this word is also an ingredient (possibly from Skt. *tailaka* ‘a small quantity of sesamum oil’). However, as Degener pointed out, *ttīlaka-* is simply an adjective formed with the Late Khotanese diminutive and suffix *-laka-*.⁴¹³ Accordingly, the three passages in the PiŚ can be translated as follows: § 4 *ttīlaka hā haumai* ‘a little wheat flour’, § 118 *ttīlakā hā gvī’ha’ rūṃ* ‘a little cow oil’, § 128 *ttīlakā . [hā +] da na ji* ‘a little *da na ji*’.

§ 6

pā’- ‘force, essence’: The Late Khotanese substantive *pe’* (< OKh. *pāta’n-*)⁴¹⁴ is commonly used with the meaning of ‘power, strength’.⁴¹⁵ This is seen, for instance, in a passage of the *Siddhasāra* (§ 1.33 (Ch. 6v1-3)), where the author enumerates some specific characteristics (of the patient, drugs, region etc.) that every physician should carefully examine before starting a treatment:

khvai krra āstañe . u kīrā īṃdā . (1) diśai’ spāsāñā u (2) bādā u kālā . u (3) jsīna . u (4) ttaramdarūṃ dai . u (5) nūska . u (6) prrara . u (7) arva . u (8) ttaramdarū u (9) ysirā pe’ (10) hauva eṣṭāma . u (11) āchai khu ttika dye īṃdā u ttī-v-ai āstañāñā .

When one begins one’s medical treatment and is doing (one’s) work, (1) the region must be looked into, and (2) the period and time, and (3) the (stage of) life, and (4) the body fire, and (5) habits, and (6) nature, and (7) drug, and (8) the body, and (9)

⁴¹² Cf. *Studies* 1.51.

⁴¹³ Cf. ‘ein wenig’, Degener 1989: 305-306.

⁴¹⁴ Cf. SGS 341 and *Dict.* 241. See also Del Tomba 2021.

⁴¹⁵ *Dict.* 248, s.v. *pe’*.

the strength of the (patient's) heart, and (10) (his) power (and) endurance, and (11) the disease. When one has observed those, then one must begin.⁴¹⁶

Here *ysirā pe'* 'the strength of heart' corresponds to Skt. *sattva*, meaning 'strength of character, resolution, or self-command',⁴¹⁷ and describes one of the most important qualities of a patient, as also specified a few paragraphs before (Si 1.30 (Ch 6r3-4; P 7-9)):

cu āchinai hīya aṃga ṣṭāre . ṣi' jsāṃ arthāna haṃphve śtāka . u jsūñi jsa . u ysira bise hota jsa haṃphve cu jehavīyi āchā u asthūmājsā āchinai ttikyāṃ jatte

As for the branches of the patient, he indeed must be endowed with wealth and **be endowed** with vitality and **with strength in (his) heart**. If the diseases are curable and the patient is *strong, he will be cured of them.⁴¹⁸

In § 6 of the *Piṇḍasāstra*, however, the literal meaning 'strength' of the word *pe'* does not fit quite well the context, since it refers to the preparation of the poultice (*ttī pe' ysūñāñā . u paskyāṣṭā hā tcirai* 'then the *pe'* (remaining) must be strained and be put back into (the vessel)'). An alternative interpretation is suggested by the Sanskrit word *śakti*, which occurs in the Skt. Si 1.26 (Ch 5v4-5; P 1-3), referring to the potency of a substance. In fact, *śakti* 'power' has the secondary meaning of 'effectiveness or efficacy (of a remedy)'.⁴¹⁹ In § 6 the effectiveness of the medicine is obtained by boiling the ingredients with three *vasīyas* of water until only one remains. The result is an essence containing all the beneficial and therapeutic effects of the drugs. Hence, I translate *pe'* as 'essence', i.e. a substance containing in a very strong form the special qualities of the ingredients and from which it derives its potency.

mijsaā-, mijsāka-, and mijsākīnaa-: The word 'kernel' or 'marrow', the central and edible part of a fruit, is expressed in the *Piṇḍasāstra* by the three related words *mijsaā-*, *mijsāka-*, and the adjective *mijsākīnaa-*.

The first one, *mijsaā-*, literally means 'marrow' and derives from Iir. **mazgakā-* (cf. Av. *mazga-* and Skt. *majjan-*, *majjā-*). This word can refer both to the bone-marrow and to the

⁴¹⁶ Emmerick's unpublished critical text and translation.

⁴¹⁷ Cf. MW 1135, s.v. *sattva*.

⁴¹⁸ Emmerick's unpublished critical text and translation.

⁴¹⁹ MW 1044.3, s.v. *śakti*.

substance contained in the dried fruit. The first meaning is attested in Si 1.12 (Ch 4r5-4v1), in the description of the most important component of the body, (*cu ttaramdarä . ši' raysä u huñä u gūsta u pī u āstai u mijsā u sūkrä* 'As for the body, it (is) chyle and blood and flesh and fat and bone and marrow and semen')⁴²⁰ and Z 20.54, in a vivid description of corpses in a cemetery (*nāhune ggūne tcāra pī hūnā mājśā māstai āške hvī aśśucä bīysma bile* 'Nails, hairs, grease, fat, blood, marrow, brain, tears, sweat, faeces, urine, entrails').⁴²¹ As for the second meaning, in Si 21.17 (Ch 131r2-4) *mijsā-* is considered one of the four oily substances employed against wind diseases (*śu'mye beta vaska tcaura tcārba haurāñä . tta tta khu pī . mijsā . gvīhā . rruṃ . kujśavīnai rruṃ āstaṃna krra tcerai* 'For wind alone the four oily (substances) must be given. Treatment must be administered with (the four oily substances) namely, fat (Skt. *vasā*), marrow (Skt. *majjan*), cow oil (Skt. *ājya*), and sesame oil (Skt. *taila*)').⁴²² It is worth noticing that in both *Piṇḍasāstra* (§§ 39 61 75 76 108) and *Jīvakapustaka* (§§ 41 (84v3) 46 (87v5)) *mijsā-* always follows *tharka* 'walnut', with the only exception of PiŚ § 107, where *mijsā-* occurs alone, and JP 46 (88r4) and 68 (102v3), where *mijsā-* refers to bone-marrow (§ 46 *āsthī mījsā*, § 68 *mījsāya ... āsthī*).

The second word *mijsāka-* occurs only in Late Khotanese texts and must be derived from *mijsā-* with the diminutive suffix *-ka-*.⁴²³ Differently from the previously mentioned *mijsā-*, *mijsāka-* is always followed by various kinds of fruits as, for instance, the belleric myrobalan in the *Siddhasāra* (Si §§ 26.28 (Ch 148v1-2) *vihīlai hīvī mijsākā*, 26.47 (Ch 150v4-5) *vihīlai hīya mijsāka*). In the *Piṇḍasāstra*, this word is more frequently found with the not yet identified ingredient *gāñā-/guñā-*,⁴²⁴ whose 'kernels' are often roasted (*pattauda-*) or burnt (*padīya-*). Alongside the occurrences in the *Siddhasāra*, *Jīvakapustaka*, and *Piṇḍasāstra*, *mijsāka-* appears also in the brief medical text contained in folio 100 of the Ch. ii.002 manuscript, the *Piṇḍasaptaka*, as *gāñā pattoda mījsāka* 'roasted kernel of *gāñā*'.

⁴²⁰ Emmerick's unpublished critical text and translation.

⁴²¹ Text and translation from Emmerick 1968: 294-295. See also *Studies* 2.87-90.

⁴²² Emmerick's unpublished critical text and translation.

⁴²³ See Degener 1989: 195.

⁴²⁴ See below in the commentary, s.v. *gāñā-/guñā-*.

Finally, the third word *mijśākīnaa-* is the adjective derived from *mijśāka-* with the denominal suffix *īnaa-*.⁴²⁵ To the best of my knowledge, this adjective is found only in the *Piṇḍasāstra* (§§ 66 67) and is always followed by *rūna-* ‘oil’, referring to an unspecified ‘kernel oil’.

uci jsa: ‘water’ see Emmerick in *Studies* 1.27, s.v. *utcā-*.

§ 7

ttriphalā- (*halīraa-*, *viḥīlaa-*, and *aumalaa-*): The Indian *triphalā* is a well-recognised poly-herbal medicine consisting of three fruits, namely Skt. *harītakī*, *vibhītakī*, and *āmalakī* (LKh. *halīraa-*, *viḥīlaa-*, and *aumalaa-*). There is a general agreement in identifying these plants with two species of Combretaceae and one of Euphorbiaceae: *Terminalia chebula* Retz. for *harītakī*,⁴²⁶ *Terminalia bellirica* Roxb. for *vibhītakī*,⁴²⁷ and *Phyllanthus emblica* Linn. for *āmalakī*.⁴²⁸ The use of the three myrobalans in the traditional medicine of India is attested already in the *Carakasamhitā*. In the first chapter of the *Cikitsāsthāna* (1.3.41-42), Caraka describes the famous *rasāyana* properties of *triphalā*, which promotes longevity and good health:

abhayāmekāṃ prāgbhuktād dve bibhītake |
bhuktvā tu madhusarpirbhyāṃ catvāryāmalakāni ca ||
prayojayan samāmekāṃ triphalāyā rasāyanam |
jīvedvarṣaśataṃ pūrṇamajaro+avyādhireva ca ||
(iti triphalārasāyanam |)

‘One *harītakī* (fruit) after digestion, two *bibhītaka* (fruits) after meals and four *āmalakī* (fruits) after meals should be taken with honey and ghee for a year. This

⁴²⁵ For the suffix *-īnaa-* see Degener 1989: 133-138.

⁴²⁶ On the uses and the characteristics of *harītakī* see Nadkarni 1954: 1.1205-11, Sivarajan and Balachandran 1994: 172-173, and Sharma 1996: 404-412.

⁴²⁷ On the uses and the characteristics of *vibhītakī* see Nadkarni 1954 : 1.1202-05, Sivarajan and Balachandran 1994: 505-506, and Sharma 1996: 266, s.v. *bibhītaka*.

⁴²⁸ On the uses and the characteristics of *āmalakī* see Nadkarni 1954: 1.480-84, Sivarajan and Balachandran 1994: 28-29, and Sharma 1996: 33-39.

triphalā rasāyana makes a person live for one hundred years devoid of old age and diseases. (Thus is triphalā rasāyana).⁴²⁹

However, *triphalā* is more than a rejuvenating formula. In fact, in the Āyurvedic tradition, the three myrobalans are recognised for their multiple therapeutic properties, perhaps comparable to a panacea. Together, or mixed with other ingredients, they promote digestion, alleviate respiratory problems, urinary diseases (*prameha*), skin diseases (*kuṣṭha*), etc.⁴³⁰ Another excellent quality of *triphalā* is its beneficial effect against eye disorders, such as, for instance, *timira* ‘darkness of the eye, partial blindness’.⁴³¹ This property is renowned in Late Khotanese medical texts, as well. In the *Jīvakaṣṭaka* it is stated that *halīraa-*, *viḥīlaa-*, and *aumalaa-* ‘overcomes timira and all kinds of diseases in the eye’ (§ 28 [74r4-5] *tcīṇa ttamīra jīmḍa u bīśūṇa āchā*) or, likewise, *ṣa’ rū ttamīrām janāka* ‘this fat [is] an overcomer of timira’ (§ 29 [74v5, 75r1]).⁴³² Similarly in the PiŚ, the three fruits are employed against *saṃdvena tcimṇā rāhā* ‘pain in the eye due to a combination (of the three *doṣas*)’ (§§ 2, 7), or ‘due to bile and disturbance of the blood’ *pettana u hūṇa āphārā* (§ 5). In the remaining cases, the fruits of *triphalā* can be found in the preparation of a poultices that ‘expels bile (and) phlegm in one’s stomach and undigested (food) in the belly’ (§ 10 *petta śliṣmī khāysāṇā u ahaṇa āma naṣpaśde*), remove ‘cough (and) disturbance of the breath’ (§ 42 *phāhi’ uysānā āphārā jīmḍā*), a poultice for the belly to tie on the navel (§62), and finally ‘when the supports (of the intestines) swell’ (§ 68 *cū saṃbhāra hasvīṃḍā*).

prūyā-: a measure of weight, see also Emmerick 1979a. Cf. other unit of measure in the *Piṇḍasāstra*: *akṣara-*, *kabā-*, *mācāṃgā-*, *vasīya-*, *śiṃga-*, *ṣaṃga-*, and *sira-*.

§ 8

arva: Cf. *arūva* mentioned below.

⁴²⁹ Translation by Sharma 1998: 2.24

⁴³⁰ See on other uses of *triphalā* Sharma 1996: 173-178; see on the uses of *harītakī* Dash 1999: 155-166.

⁴³¹ MW 447, s.v. *timira*. Emmerick: ‘black spots in the eye’.

⁴³² Transcription and translation by Konow 1941: 38-39.

kaṣā'a- 'decoction': LKh. *kaṣā'a-* is a loanword from Skt. *kaṣāya*, an adjective meaning 'astringent'. The Sanskrit term occurs also as a substantive masculine or neuter and denotes 'a decoction or infusion',⁴³³ obtained by boiling water and several drugs together. In the PiŚ, Kh. *kaṣā'a-* occurs five times as NS (§ 8 *kaṣā'*), LS (§ 8 **kaṣā'ña*), and finally as IAS (§§ 89, 102 *kaṣe'na*, 104 *kaṣe' jsa*), where the IAS ending *-na* and the postposition *jsa* normally interchange in the Late Khotanese masculine *a*-declension.⁴³⁴

One expects that the word *kaṣā'a-* belongs to a masculine declension, as a loanword from Skt. *kaṣāya*. What makes one suspicious is the agreement with the participle of the verb *yan-* in § 8. In fact, in the sentence *ṣi' kaṣā' hāñña tcirā* 'the decoction must be put back into the vessel', *tcirā* is a participle of necessity of the secondary declension (*tceraa-*) from the verb *yan-* 'to do' + L, meaning 'to put in', and should be declined as a NSm according to *kaṣā'*. Therefore, one would theoretically expect the ending *-ai* (*tceraai*)⁴³⁵ and not *-ā* as in *tcirā*, which is the attested form of the NS feminine from the *-āa-* secondary declension.⁴³⁶ It is plausible that *kaṣā'* (NSm) and *tcirā* (NSf) do not agree grammatically due to an occasional copyist's mistake (*-ā ... -ā* instead of *-a ... -ai*). However, it should not be ruled out that *tcirā* indicates a linguistic change underway in Late Khotanese involving an incipient transfer of the masculine polysyllabic *-āa-* declension to the feminine because of the formal ambiguity of some of their forms like *kaṣā'*.

būśānai 'perfume': In the PiŚ, 'perfume' is expressed by *bua'*- (*bū'* § 13, *bū'* §§ 22 31, *bū'* § 93) and *būśānai* (§§ 8 (2×) 123). As for *bua'*-, it was derived by Emmerick from Iir. **bauša-* (cf. *gguā'*- < Iir. **gauša-*).⁴³⁷ On the other hand, *būśānai* looks formally like an adjective from the verb *buśś-* 'to be fragrant' and the suffix *-ānaa-*, forming middle present participles.⁴³⁸ However, in the three occurrences of the *Piṇḍasāstra*, the word is attested as a substantive together with *ciṃga-* 'Chinese', where *ciṃgāṃ būśānai* literally means 'perfume of the Chinese'. This is confirmed by the parallels in the *Jīvakaṣṭaka*, where *buśśānaa-* occurs several times

⁴³³ MW 265, s.v. *kaṣāya*.

⁴³⁴ Cf. SGS 260.

⁴³⁵ See the NS of the masculine *-aa-* declension in SGS 297.

⁴³⁶ Cf. SGS 300.

⁴³⁷ SGS 332.

⁴³⁸ Degener 1989: 82.

as a noun in *ttāgūttāṃ būsāṃni* ‘Tibetan perfume’⁴³⁹ (§§ 50 [94r4], 51 [95r2], 57 [97v4]) and in *svaṇṇagūttaryāṃga būsāṃni* ‘svaṇṇagoṭra perfume’⁴⁴⁰ (§§ 11 [58v4], 12 [60v2], 47 [91r1], 74 [105v1], 75 [106r4], 81 [110v5]). It is likely that *cigāṃ būsāṃnai* ‘Chinese perfume’ also refers to a specific plant, as in the cases of *ttāgūttāṃ būsāṃni* and *svaṇṇagūttaryāṃga būsāṃni* in the JP (see fns. 439 and 440), but it has not been identified so far.

akṣarā: LKh. *akṣara-* is a loanword from Skt. *akṣa-*, a measure of weight. For the unit of measure in Khotanese medical texts see Emmerick 1979a. Cf. other unit of measure in the *Piṇḍasāstra*: *kabā-*, *prūyā-*, *mācāṃgā-*, *vasīya-*, *śiṃga-*, *ṣaṃga-*, and *sira-*.

śiṃgā: LKh. *śiṃga-* is a loanword from Chinese 升 (shēng), a measure of weight. The Chinese 升 is equivalent to 1.035 litres and should correspond to the Sanskrit measure *prastha*. See on *śiṃga-* Emmerick 1979a and *Studies* 2.139-140. Cf. other unit of measure in the *Piṇḍasāstra*: *akṣara-*, *kabā-*, *prūyā-*, *mācāṃgā-*, *ṣaṃga-*, and *sira-*.

sirā: LKh. *sira-* is a measure of weight. Bailey probably considers it a loanword, since he does not record it in his *Dictionary*. See on the unit of measure in Khotanese medical texts Emmerick 1979a. Cf. other measures in the *Piṇḍasāstra*: *akṣara-*, *kabā-*, *prūyā-*, *mācāṃgā-*, *śiṃga-*, and *ṣaṃga-*.

⁴³⁹ Konow 1941: 91 translates *ttāgūttāṃ būsāṃni* as ‘spices of the Tanguts’, a plant that, according to him, corresponds to Skt. *aguru* ‘the fragrant Aloe wood and tree, Aquilaria Agallocha’ (cf. MW 5, s.v. *aguru*).

⁴⁴⁰ Konow 1941: 103 translates *svaṇṇagūttaryāṃga būsāṃni* as ‘svaṇṇagoṭra spices’, a nard.

2. Second chapter: Poullices for the stomach

The second chapter of the *Piṇḍasāstra* deals with disorders affecting the stomach (LKh. *khāysāna-*). In the Khotanese *Siddhasāra*, the word for stomach (*khāysāna-*) correspond to Skt. *āmāśaya* ‘the receptacle of the undigested food’.⁴⁴¹ Caraka provides us with a description of the functions of this important organ (Ca.Vi. 2.17-18):

nābhistanāntaram jantorāmāśaya iti smṛtaḥ |

aśitaṃ khāditaṃ pītaṃ līdhaṃ cātra vipacyate ||

āmāśayaḡataḥ pākamāhāraḥ prāpya kevalam |

pakvaḥ sarvāśayaṃ paścāddhamanībhiḥ prapadyate ||

‘Between navel and breast there is an organ named “āmāśaya” (stomach): eatable, chewables, drinkables and lickables are digested there. The food having gone to āmāśaya and having been digested there fully, its mature product thereafter reaches all the organs through blood vessels.’⁴⁴²

Accordingly, the stomach is responsible for one of the most important process of the body, i.e. the digestion of food. This process is described with the Sanskrit word *pācana* ‘cooking’, while the digestive force that ‘cooks’ the raw food is *agni* (‘(digestive) fire’) or *jāṭharāgni* (‘fire in the belly’).⁴⁴³ It is interesting to notice that, in the *Piṇḍasāstra* as well, the digestion is described with the LKh. verb *pajs-* ‘to cook’ at the 3S pres. ind. *paśtā* in the sentence of § 14 *khāysāna hāma bāva paśtā* ‘it cooks a raw root in the stomach’.

§ 10

rrājaa- ‘pertaining to the plain’: For *rrājaa-* ‘pertaining to the plain’ (§§ 10, 12, 26, 52, 53, 54, 81) see Degener 1989: 302 (§ 48.C.14.1 suffix *-ja-* forming adjective from noun) and 304 s.v.

⁴⁴¹ MW 146, s.v. *āmāśraya*.

⁴⁴² Translation by Sharma 2014: 1.313.

⁴⁴³ Wujastyk 2003: xviii.

rrājaa- (< **rāgja-*, from *rrāa-* ‘plain’ < **rāka-*). In *KT 3*, Bailey transcribes all the occurrences of *rrājaa- namvā-* ‘salt from the plain’ as a compound name (*rājā-namvā*).⁴⁴⁴ Even though a compound *rājā-namvā-* is theoretically possible, it is advisable to follow Degener’s suggestion because of the suffix *-ja-* and to consider *rrājaa-* as a regular adjective preceding the feminine noun *namvā-*.

bimḍā halīrai parkūṇāñā . darye jsahāra nīsāñā: In his unpublished translation of § 10, Emmerick interprets *bimḍā halīrai parkūṇāñā . darye jsahāra nīsāñā* as ‘it must be sprinkled on a split chebulic myrobalan, (and) placed on the belly’. In order to come to a better understanding of the phrase under consideration, let us begin with analysing this passage starting from *darye*.

darye is a GD form from a masc. sg. *dara-*. Bailey’s explanation of *dara-* as an adjective meaning ‘thick’ and derived from *dar-* ‘to hold together’⁴⁴⁵ must be abandoned, as shown by Emmerick,⁴⁴⁶ since *dara-* is a Late Khotanese spelling of an OKh. adj. *darra-* ‘broken’ (< Iir. **dṛna-*). The word *dara-* takes on the specific meaning ‘split, severed’ in two *Siddhasāra* passages (Si 26.55 (Ch 151v5-152r3), 26.82 (Ch 155v2-3)), one of which (Si 26.55) resembles the passage in PiŚ § 10 and is translated by Emmerick as follows:

*pātcā sauvīraṃjā aumalai kā saṃ hamāte . cūṇya gvīhā . rrū jsa u māksī’ jsa haṃbrīhāñā *halīrañā āna gichauka thaṃjāñā u tteña śkāmakāña hā tvā arva viśtāñā u darā hāmai jsa esalyāñā .[...]*

Next, the powder (from) antimony (or) emblic myrobalan, whichever may be appropriate, must be mixed with cow oil and honey; **the stone must be extracted from a chebulic myrobalan, and the medicament must be put into the *hole, and the split (in the myrobalan) must be smeared with dough; [...]**

In this passage, the author is describing the process of opening a chebulic myrobalan in order to place the medicament inside. As a following step, the broken fruit must be covered with an unspecified amount of dough. To describe the surface on which the dough must be smeared, the

⁴⁴⁴ Differently from *Dict.* 361, s.v. *rrāja* where he quotes the occurrences with the adjective as *rrāja namva*, *rāja namva* and *rrāje namvena*.

⁴⁴⁵ *Dict.* 152, s.v. *dar-*.

⁴⁴⁶ *Studies* 1.54-55 s.vv. *dara-* and *darra-*.

translator adopted the substantivised adjective *dara-*, which Emmerick renders as ‘the split (in the myrobalan)’ (*daraq*). In the same way, I suggest to regard the PiŚ GDSm *darye* as a noun, meaning ‘of the split’, differently from the original Emmerick’s unpublished translation in which *darye* is considered an adjective referring to the preceding *biṃḍā halīrai* (‘on a split chebulic myrobalan’). This accounts better for the dot preceding *darye* in the manuscript.

Moving forward, in Emmerick’s translation of § 10 *jsahāra* is interpreted as a LSm from *jsahāra-* ‘belly’, referred to the patient’s body. Taking this into account, the medicament, after being sprinkled on the split myrobalan, should be placed on the patient’s belly. However, *jsahāra* cannot be a locative since the normal ending of a LSm is $-i a < \text{Iir. } *-ayā$.⁴⁴⁷ Therefore, the regular outcome would be *jsahera*, where *-e-* is a consequence of the palatalization of *-ā-* before *-r-*, as is attested in the aforementioned paragraph 26.55 of the *Siddhasāra* (*jsehera*), in Z 20.41 (*jsahera*), and in *Vimalakīrtinirdeśasūtra* 181 (*jsahera*). A different interpretation of the phrase is suggested once again by Si 26.55:

bara-śījā hīvī besu jsa dāñā padajsāñā . daṃḍa khu hāmai suṣṭa u dāṃḍa jīye u esūjāñā u aysdemāñā . cu va halīrai jsehera arva hame śā’ vā thamjāñā u kuṭāñā . halīrā hāyṣe dīsāñā tceṃñā bese arvā hīye gvehaiśkye jsa tceñā neśāñā . ttemīrā jenāka . pīrmātaṃ hva ṣṭe

(the myrobalan) must be burned in a fire (made) with fuel of badaras (or) jujubes until the dough catches fire and the smoke ceases; and (the dough) must be burnt up and (the myrobalan) must be cooled. **What(ever) medicament is (still) there in the belly of the chebulic myrobalan, it must be extracted and pounded.** The chebulic myrobalans must be thrown away. (The remaining medicament) must be inserted in the eye by (means of) an instrument for (inserting) medicines in the eye. (This medicament) is said to be the best remover of (the disease of seeing) black spots

In this paragraph, *jsehera* refers figuratively to the belly of the fruit and not to the patient’s body. In the same way, it is possible to consider the noun adjective *darye* in the GD as the specification of the nominative *jsahāra*, which agrees with the verb *nīsāñā*. Accordingly, the

⁴⁴⁷ Cf. SGS 260-262.

Piṇḍasāstra passage in § 10 can be translated as follows: *biṃḍā halīrai parkūṇāñā . darye jsahāra nīsāñā* ‘it must be sprinkled on a (severed) chebulic myrobalan, (and) the belly of the split must be placed (on the patient’s stomach)’.

§ 11

sachā- bāvā- ‘Sida root’ (*Sida cordifolia* Linn., *Sida rhombifolia* Linn., *Sida spinosa* Linn., *Abutilon indicum* Linn.): In the article ‘Arsenic and Sida’,⁴⁴⁸ Emmerick provides evidences for the identification of the different varieties of the *sachā-* plant occurring in the Khotanese medical texts. Since the Sanskrit and Tibetan *Siddhasāra* and the Sanskrit *Jīvakapustaka* have been translated into Khotanese, it is known that *sachā- bāvā-* corresponds to Skt. *balā* and Tib. *ba-la*.⁴⁴⁹ This drug is held in high regard by the Āyurvedic physicians, in particular for the exceptional qualities of its roots. Among the different varieties of *balā-* plants, mainly four kinds are employed in Āyurvedic medicine against all sorts of diseases (e.g. rheumatism, piles, wounds, difficult labours, etc.),⁴⁵⁰ namely *balā*, *atibalā*, *nāgabalā*, and *mahābalā*.⁴⁵¹ These four types have been identified with different varieties of *Sida*, a genus of flowering shrubs from the Malvaceae family. There is a general agreement to equate *balā* primarily with *Sida cordifolia* Linn.,⁴⁵² *mahābalā* with *Sida rhombifolia* Linn.,⁴⁵³ *nāgabalā* with *Sida spinosa* Linn.,⁴⁵⁴ and finally *atibalā* with *Abutilon indicum* Linn.⁴⁵⁵

In the Khotanese medical literature as well, different varieties of *Sida* have been identified as parallels of the above-mentioned *balā-* plants, i.e. *sachā-* root, white *sachā-* root, black *sachā-* root, and red *sachā-* root. The first one is expressed by the simple compound *sachā-bāvā-*, which occurs in all the Khotanese medical texts. The second, ‘white *sachā-* root’,

⁴⁴⁸ Emmerick 1981: 93-102.

⁴⁴⁹ For the occurrences in the Si and JP see also Emmerick 1981: 97.

⁴⁵⁰ For the medical use of this plant see Sharma 1996: 261-263.

⁴⁵¹ Cf. Sivarajan and Balachandran 1994: 71-80 for the different varieties of *balā-*plants.

⁴⁵² Sivarajan and Balachandran 1994: 71, Nadkarni 1.1134-1137, and Emmerick 1981: 93.

⁴⁵³ Sivarajan and Balachandran 1994: 74, Nadkarni 1.1137-1138, and Emmerick 1981: 93.

⁴⁵⁴ Sivarajan and Balachandran 1994: 74-75, and Nadkarni 1.1138. Emmerick 1981: 93 *Sida veronicaefolia* Lam., a variant of *Sida spinosa* Linn.

⁴⁵⁵ Sivarajan and Balachandran 1994: 77-79, Nadkarni 1.8, and Emmerick 1981: 93.

is the translation of *śīya sachā bāva* occurring only in JP 7 (53v1) and 12 (60r4). The third ‘black *sachā*- root’ is found in Si 22.23 (Ch 135v3), JP 7 (53v2), PiŚ 11 and *Piṇḍasaptaka* (r4). Finally, the fourth ‘red *sachā*- root’ is expressed by *haija sachā bāva* (JP 7 [53v2]).

Furthermore, two additional varieties of the *sachā*- plants have been found in medical texts. However, their interpretation is more uncertain. The first one is *dajūna sachā bāva* (*Piṇḍasaptaka* r4), literally ‘flamed-coloured (or flaming) *sachā* root’. The Late Khotanese adjective *dajūna* is formed of *daji*- ‘flame’ (< *dajs*- ‘to burn’)⁴⁵⁶ and the suffix *-ūna*- (< Ir. **gauna* ‘colour’)⁴⁵⁷ and Emmerick suggests a possible yellow or white colour of the flowers.⁴⁵⁸ The second term is found in PiŚ § 88 as *mijejūna sachi perä* ‘leaves of *mijejūna sachā*’. According to Bailey, the meaning of LKh. *mijejūna* may be compared with *dajūna* of the *Piṇḍasaptaka* and analysed as a compound of *mījī*, translated as ‘red-coloured’, and *ggūna*- ‘colour’.⁴⁵⁹ Bailey adduces in support of this interpretation the word *rijī-jum* ‘of *rijī*- colour’,⁴⁶⁰ which he thinks may have undergone the same process of palatalisation. This analysis, though, raises morphophonological difficulties since it leaves unexplained the palatalisation of the -g- in a hypothetical Late Khotanese compound *mījī-jūna*- < LKh. **mījī-ggūna*-. This interpretation is implicitly rejected by Degener, who tentatively explains LKh. *mījījūna*- as an adjective containing the unknown word *mījīja*- and the suffix *-ūna*- (< Ir. **gauna* ‘colour’) and suggesting the translation “‘rot’ (?)”.⁴⁶¹ So far, I have not been able to find any further explanation for this word and, therefore, I decided to follow Degener’s hint. Another possibility would be to interpret *mijejūna sachi perä* as two independent ingredients, where *mijejūna* is an unknown drug and *sachi perä* refers to the leaves of the *sachā*-plants, an alternative of the more common *sachā-bāvā*- (‘*sachā*- root’).

Nevertheless, Emmerick noticed that the different colours of the Khotanese *sachā*- plants do not correspond to the actual colours of the flowers from the different varieties of the *Sida* plants, which are known to be yellow or orange. According to Emmerick, in fact, ‘the

⁴⁵⁶ Cf. SGS 43.

⁴⁵⁷ Degener 1989: 169-170.

⁴⁵⁸ Emmerick 1981: 98. Cf. also *Dict.* 150, s.v. *daja-gūna*.

⁴⁵⁹ *Dict.* 331, s.v. *mījī*.

⁴⁶⁰ *Dict.* 363, s.v. *rijī*.

⁴⁶¹ Degener 1989: 171.

evidence seems to suggest that the Khotanese identified the *balā* roots with their own *sacha* roots without equating any particular variety of *balā* with any particular variety of *sacha*.⁴⁶²

§ 12

dūvara- ‘dropsy’: The etymology of *dūvara-* was already discussed by me in *III* 65 (2022)⁴⁶³ Here is a brief overview of my interpretation.

The technical term *dūvara-* is attested exclusively in Late Khotanese medical texts. Kh. *dūvara-* corresponds in the *Siddhasāra* and the *Jīvakapustaka* to Skt. *udara-* and Tib. *dmu rdzing* (Si 2.27 (Ch 14r4-5; P 155-158), 3.26.5 (Ch 20v2 *duvarä*), and 24.16 (Ch 140r1-2); JP 6 (52v2), 22 (67v4 [3×], 5 [2×]), 34 (97v3), 36 (81r2), 52 (95v3 *dūtira*), 80 (110r4), 88 (114v2)).⁴⁶⁴ In the *Piṇḍasāstra*, the term occurs three times in §§ 12, 22, 61, respectively in a poultice that ‘will remove diseases in the stomach, swelling, and dropsy’ (*khāysāñña āchā jīṃdä . hasä u dūvarä*) and in two poultices that must be applied on the belly and the navel and that ‘will remove dropsy and swelling’ (*dūvarä jīṃdä u hasä*).

The Skt. word *udara-*, which originally refers to the external part of the digestive system (PIE **ud-* ‘outside’),⁴⁶⁵ was adopted in medical literature to describe any pathological ‘enlargement of the abdomen’ including ‘dropsy’.⁴⁶⁶ However, *udara-* is not the direct source of the Khotanese *dūvara-*. In fact, it should be regarded as a loanword from Skt. (*u*)*dakodara-* (from Skt. (*u*)*daka-* ‘water’ and *udara-* ‘abdomen’), one of the eight kinds of ‘abdominal swelling’ mentioned in the canonical Āyurvedic literature. Phonology, though, indicates that this very specialized medical term have already entered Old Khotanese from Gāndhārī, as the aforementioned LKh. *saṃdvāta-* (§§ 2, 20, 104 ‘combination (of all the three *doṣas* in one and the same location)’).

⁴⁶² Emmerick 1981: 98.

⁴⁶³ Luzziatti 2022: 229-235.

⁴⁶⁴ Two more occurrences of *dūvara-* are attested in JP 68 (102v1) and 91 (115v5). However, in one case it has no Sanskrit counterpart (§ 68) and in the other it renders Skt. synonym *jāṭhara-* ‘enlargement of the abdomen’ (for references see Luzziatti 2022: 232 fns. 23 and 24).

⁴⁶⁵ See Ferrari 2022: 224.

⁴⁶⁶ MW 184 s.v. *udara*.

The Old Indian voiceless velar stop *k* in *dakodara-* underwent sonorization and subsequent spirantization in Gāndhārī (*k > g > ɣ*, cf. OInd. *loka-* > Gāndh. *loga-/loga-*) and it was the resulting Gāndh. **dagodara-* that was borrowed into Old Khotanese as **dagūvara-* [da 'ɣu:wara].⁴⁶⁷ Intervocalic *-g-* [ɣ] was dropped early in Old Khotanese causing a hiatus orthographically marked through *-g-* or *-t-* (cf. OIr. **iakr̥na-* > OKh. *gyagarra-/jatārra-* 'liver'). Similarly, the hiatus caused by the loss of the intervocalic *-d-* in **dagodara-* was filled with the glide *-v-* [w]. The outcome **datūvara-* [da'ʔu:wara] was finally reduced to LKh. *dūvara-* by the usual syncope of OKh. pretonic short *-a-* in hiatus (cf. OKh. *natālsto* > LKh. *nāṣṭa* 'downwards').⁴⁶⁸

To conclude, Khotanese adopted LKh. *dūvara-* (< OKh. **datūvara-* ← Gāndh. **dagūdara-* < OInd. *dakodara-*) as a general term for 'abdominal swellings'. Considering the etymology, I here translate this medical term generically as 'dropsy'.

§ 14

bara śīmja (§§ 14, 61) 'jujube (*Ziziphus jujuba* Mill., *Ziziphus mauritiana* Lam.)': The plant *bara śīmja* occurs twice in the *Piṇḍaśāstra*, in two poultices used to treat wind, wind-bile, and phlegm disorders, and other related conditions. Similarly, in the *Siddhasāra* (§ 3.22.8 [Ch 18v3-4]), this ingredient is known to be a remedy against diseases due to wind and bile (*bara śīji hīvī hīyārā bāta u ttavaṃdya jidā* 'the fruit of jujube śīji removes wind and bile').⁴⁶⁹ As already pointed out by Emmerick,⁴⁷⁰ LKh. *bara-* is a loanword from Sanskrit *badara-*,⁴⁷¹ that entered Old Khotanese early as **batara*, which is indirectly attested in a fragment of the *Vimalakīrti* as the adjective *bararīgyo* 'from the *batara* tree'.⁴⁷² In fact, in the *Siddhasāra*, LKh. *bara-* renders

⁴⁶⁷ An occurrence of the OKh. form is found in the compound name *daga-rakṣaysyāṃ jsa* meaning 'with the water-demons' from an original Skt. *udaka-rākṣasa*. The word occurs in ms P 2787.79 (*KT* 2.104) within the 'Panegyric on King Viśa' *Samgrāma*, cf. Bailey 1965: 104.

⁴⁶⁸ Luzziatti 2022: 234.

⁴⁶⁹ Emmerick's unpublished critical text and translation.

⁴⁷⁰ Emmerick 1983: 46-47.

⁴⁷¹ MW 719, s.v. *badara*.

⁴⁷² *KT* 5.314 (Otani 3-4) *suṃjisiṇaṃ nūhāna bararīgyo bāggaru*. See also Skjærvø 1986: 243-244 (5.15.2) and Maggi 2022b: 126, fn. 19

Skt. *badara*, which occasionally alternates with the synonym *kola* and has been identified with the *Ziziphus jujuba* Mill. or *Ziziphus mauritiana* Lam., a fruit tree belonging to the *Rhamnaceae* family, also known in English as ‘jujube tree’.⁴⁷³

On the other hand, the interpretation of *śīmja* is still not very clear. Bailey explains it as a Khotanese word, meaning ‘the thorny jujube, zizyphus jujuba’.⁴⁷⁴ In his interpretation, therefore, *bara* and *śīmja* are dyadic and refer to the same plant. However, Emmerick observed that *śīmja* is used independently from *bara-* in three passages of the *Siddhasāra* (Si 2.20 [Ch 13r2-3; P 133-135] *śīmja*, 2.21 [Ch 13r3-13v1; P 136-140] 23.19 [Ch 137v1-3] *śija* ‘śīmja’).⁴⁷⁵ In these cases, *śīmja* corresponds to Skt. *dhava* (*Anogeissus latifolia* Roxb.)⁴⁷⁶ which, according to Emmerick, shows a different meaning of the word when used by itself.

In my opinion too, *śīmja* and *bara śīmja* have to be considered two separate ingredients. The first *śīmja* may have been borrowed from Skt. *śimśa* or, most likely, from Skt. *śimśapā* (identified with the *Dalbergia sissoo* Roxb. or *Saraca asoca* Roxb.),⁴⁷⁷ which is found in Si 2.20 as the counterpart of Kh. *śe’ pacadä śīmja* ‘śīmja of a second kind’. The Khotanese spelling *śīmja* for Sanskrit *śimśa* (Skt. -ś- → Kh. -j-) is not surprising, as M. Maggi showed in the occurrence of the Kh. word *dajagraiva* ‘Daśagrīva’ for Skt. *daśagrīva* (lit. ‘the ten-necked’) in Vim 197d.⁴⁷⁸

As for *bara śīmja*, I follow Bailey’s assumption about the Iranian origin of *śīmja*. In this case, *bara śīmja* is an instance of what in linguistics is known as ‘tautological compound’ or, in other words, a compound based upon two synonyms units, and accordingly transcribed as *bara-śīmja*. This phenomenon is common also in other languages as, for instance, in Italian *Mongibello*, a compound of It. *monte* and Arabic *ğabal* جبل, both meaning ‘mountain’ and used to refer to the Sicilian volcano Etna, or the more famous *Sahara* desert, where *Sahara* comes from Ar. *ṣaḥrā* صحراء, (plural *ṣaḥāra* صحارى) ‘desert’.

⁴⁷³ For the medical use of this plant see Nadkarni 1.1316 s.v. *Ziziphus jujuba* and Sharma 1996: 258-260 s.v. *badarī*.

⁴⁷⁴ *Dict.* 399, s.v. *śīmja*.

⁴⁷⁵ Emmerick’s unpublished critical text and translation.

⁴⁷⁶ MW 513, s.v. *dhava*. For the medical use of this plant see Sharma 1996: 203, s.v. *dhava*.

⁴⁷⁷ MW 1069, s.v. *śimśapā*.

⁴⁷⁸ Maggi 2013: 143.

gāṇā-/guṇā- ‘a medicament’: So far, I have not been able to identify the origin and the meaning of this plant.⁴⁷⁹ The only occurrences found are in the PiŚ §§ 14 (*guṇām*) 97 (*gāṇām*) 51 52 91 (*gāṇā*), and 95 (*gāṇā*) and in the *Piṇḍasaptaka* (v4 *gāṇā pattoda mījsāka* ‘roasted kernel of *gāṇā*’). All the occurrences mentioned are followed by the substantive *mījsāka-* ‘kernel, marrow’, which occasionally can be employed in preparations as roasted or burnt.⁴⁸⁰

A possible explanation would be to consider LKh. *guṇā-* a Sanskrit loanword from fem. *guṇā-*. This plant is mentioned in the *Rājanighaṇṭu* (24.50-51), the largest extant medical lexicon composed by Narahari probably around the fifteenth or sixteenth century,⁴⁸¹ and is considered a synonym of *māṃsarohiṇī*. The plant *māṃsarohiṇī* has been identified as *Soymida febrifuga* A. Juss.⁴⁸² However, I have not found any evidence of the existence or use in medical products of the kernels of this herb and, accordingly, I decided to leave the occurrences of *gāṇā-/guṇā-* untranslated.

śī śāśvām ‘white mustard’ (*Brassica campestris* Linn.): *śī śāśvām* translates Skt. *śveta-sarṣapa* ‘white mustard’. See Emmerick 1967 for the use of the word *śāśvāna-* to illustrate difference in size in Buddhist literature. See Sharma 1996: 388-390 for the use of Skt. *sarṣapa* in Āyurvedic texts.

īraṃde ‘castor-oil plant’ (*Ricinus communis* Linn.): This botanical term has traditionally been identified as a loanword from Sanskrit *eraṇḍa*, a term denoting the plant *Ricinus communis* Linn. of the Euphorbiaceae family, commonly referred to as the ‘castor-oil plant’ in English. However, if one consider it as a a noun derived from *īraṃda-*, this term exhibits an irregular declension. Remarkable is the occurrences of various NS in *-e* typically associated In Late Khotanese with the NS of the *aa*-declension. Below, I present a summary of instances within the PiŚ, Si, and JP:

⁴⁷⁹ Cf. *Dict.* 82, s.v. *gāṇām*.

⁴⁸⁰ See above, s.v. *mījsā-*, *mījsāka*, *mījsākīnaa-*.

⁴⁸¹ See also Meulenbeld 1999-2000: 2A 265-270.

⁴⁸² For references see Meulenbeld 1999-2002: 2B 195, fn. 312.

	PiŚ	Si	JP
NS	<i>īraṃde</i> 14 22 32 39 50 51 75 107 108 <i>īraṃde</i> 27 55 70 125 <i>īrade</i> 14 (P 2889) 27 (P 2889)	<i>īraṃde</i> 2.1, 2.29	<i>īraṃde</i> 6 <i>īrāṃde</i> 9
GDS		<i>īraṃda</i> 14.20, 26.10, 26.12 <i>īraṃda</i> 21.32	<i>īraṃdibā</i> ('root of castor-oil plant) 27 <i>īraṃdä</i> (+ <i>bāva</i>) 48 <i>īraṃdä</i> (+ <i>bā</i>) 69
GDP	<i>īraṃdāṃ</i>	<i>īraṃdāṃ</i> 23.19	<i>īraṃdāṃ</i>

The consistent regularity of the occurrences of a NS form in *-e* suggests instead the possibility of a loanword originating from the attested Sanskrit term *eraṇḍaka*, which lead to a LKh. form *īraṃdaa-*. The meaning would still align with the original, referring to the 'castor-oil plant'.⁴⁸³

In terms of the properties of this substance, they are diverse and they can be extracted from the seeds, leaves, and roots. It is considered an anti-inflammatory against rheumatism or arthritis and a remedy for different disorders, as for instance dysentery, ascites, piles, cough, and headache. It alleviates splenic disorders, impurity of blood, fever, scrotal enlargement, colic, inflammation of the intestine, and diseases due to *vāta* ('wind') and *kapha* ('phlegm').⁴⁸⁴ Similarly, in the *Piṇḍaśāstra* poultices of crushed seeds mixed with various ingredients (e.g. milk, liquor, or sesame oil) are used against diseases of wind (§125) and phlegm (§ 14), cough (§§ 14, 39), splenic disorders (§§ 50, 51, and 55), rheumatism (§ 108), different kinds of swelling (§§ 14, 22, 27, 29, 32, and 39), disorders of the female womb (§ 75), and to promote suppuration (§ 32).

⁴⁸³ MW 232.

⁴⁸⁴ See on the properties and the uses of *eraṇḍa* Nadkarni 1954: 1.1065-1070, Sivarajan and Balachandran 1994: 149-150, and Sharma 1996: 61-66.

3. Third chapter: poultices for swellings

The third chapter of the *Piṇḍaśāstra* (§§ 15-34) is devoted to the preparation of poultices against general swellings. Within the twenty paragraphs, three distinct Late Khotanese words, perhaps with a slightly different meaning, are used to refer to this condition: *haśa-*, *hasvaā-*, and *paṣkāsaā-*. From an etymological perspective, *hasvaā-* seems unproblematic, since it can be readily explained as derived from **hasutakā-* to an attested ppp. **hasuta-*, from the verb *hasv-* ‘to swell’ (< Iir. **pra-sav-*).⁴⁸⁵ The Late Khotanese *paṣkāsaā-* derives instead from the inchoative verb *paṣkaus-* ‘(to swell)’⁴⁸⁶ and is translated by Degener as “Blähbauch” (Name einer Krankheit).⁴⁸⁷ In *Dict.* Bailey explains the verb as deriving from Iir. **pa(ti)-skauk-*,⁴⁸⁸ while Emmerick does not offer any etymology.⁴⁸⁹ Since *paṣkāsaā-* in medical texts may correspond to Skt. *ānāha*, it is likely that this term refers to a swollen abdomen due to constipation. On the other hand, the process of development of LKh. *haśa-* is obscure. Degener advances two hypothesis. Firstly, LKh. *haśa-* may represent the general palatalisation of the stem **haśś-* from an uncertain **hasā-*. Secondly, LKh. *haśa-* may be a derivation of OKh. **haśśā-* < Iir. **pra-spā-* (cf. Av. *spā-* ‘aufschwellen’), which seems problematic but possible.⁴⁹⁰

In the *Siddhasāra* the first two terms, *haśa-* and *hasvaā-*, correspond to the more frequent Sanskrit word *śopha* ‘morbid swelling’,⁴⁹¹ while *paṣkāsaā-* is the translation of Skt. *ādhmāna* ‘intumescence, swelling of the body’⁴⁹² and *ānāha* ‘constipation’⁴⁹³ Even though the etymology of the Late Khotanese words is not entirely clear, the Sanskrit parallels and the relatively clear contexts lend each other support on understanding the main topic of this long chapter, which deals with swellings originated from different causes. A concise but accurate

⁴⁸⁵ Degener 1989: 12. See also SGS 151, s.v. *hasv-*.

⁴⁸⁶ SGS 77, s.v. *paṣkaus-*.

⁴⁸⁷ Degener 1989: 15. See also Degener 1989: 13-14.

⁴⁸⁸ *Dict.* 223, s.v. *paṣkos-*.

⁴⁸⁹ SGS 77, s.v. *paṣkaus-*.

⁴⁹⁰ Degener 1989: 12.

⁴⁹¹ MW 1092, s.v. *śopha*.

⁴⁹² MW 139, s.v. *ādhmāna*.

⁴⁹³ MW 140, s.v. *ānāha*.

definition of the term *haśa-*, which occurs in the chapter heading and hence includes *hasvā-* and *paṣkāsa-*, is found in a Si 24.1 (Ch. 138r5):

cu bure saṃ haśā t̄ye gunai-v-ī śai'kā cu askhaukara hame .

‘Whatever swelling it may be, its characteristic is this: that a protuberance occurs.’⁴⁹⁴

The idea of Skt. *śopha* as a general swelling, which may appear at any part of the body and is characterised by a round shape, is shared also by the three authors of the canonical Āyurvedic treatises, Caraka, Suśruta, and Vāgbhaṭa. In terms of both disease classification and its description, there exists slight variation among the three authors. *Sūtrasthāna* 18 of the *Carakasamhitā* gives an account of the various types of swellings, here called *śoṭha*,⁴⁹⁵ which are caused by *vāta*, *pitta*, and *kapha* (separately or combined) and are either exogenous or endogenous (Ca.Sū. 18.7-8). A considerable number of various localised swellings is described in *Cikitsāsthāna* 12, in which the condition is known as *śvayathu*. In Vagbathā’s *Aṣṭāṅgaḥṛdayasamhitā*, the treatment of *śopha* is briefly discussed in the seventeenth chapter of the *Cikitsāsthāna*.

A more in-depth analysis is instead provided by the *Suśrutasaṃhitā*, in which the description of the aetiology, characteristics, and treatments of swellings is divided into two chapters. A first discussion occurs in *Sūtrasthāna* 17, where six kinds of swelling appearing in different body parts are described. The six types of *śopha*, each having specific characteristics, are due to one of the three *doṣas*, all of them together, blood, or trauma (Su.Sū. 17.4). A swelling caused by *vāta* can be identified mainly by the reddish or blackish hue of the skin and by a strong pain. A swelling due to *pitta* is generally yellowish, soft, and, when pressed, moves from one side of the body to another, causing a burning and painful sensation. A swelling brought about by *kapha* is grey or whitish, shiny and cold, painful and itching. When it arises from the three *doṣas* together (*saṃnipāta*), the swelling shows the symptoms and the characteristics of each of them. A swelling due to vitiated blood or to a trauma has the same symptoms of *pitta-śopha*. Besides knowing the different kinds of swelling, a real expert in the healing art (Skt. *vaidya*) should be able to recognise the three different stages of a swelling

⁴⁹⁴ Emmerick’s unpublished critical text and translation.

⁴⁹⁵ See MW 1091, s.v. *śoṭha* ‘a swelling, tumour, morbid intumescence, dropsy’.

(17.6), which can be unripe (Skt. *āma*), ripening (Skt. *pacyamāna*), and ripe (Skt. *pakva*) (17.5). An immature stage is characterised by a small pain, by coldness, and by being slightly elevated. A ripening stage begins with a pricking and burning pain, when the skin shows change of colour and when fever, thirst, and other symptoms arise. When eventually the swelling matures, there is an improvement in the patient's general state. Even though pus appears, pain and swelling gradually decrease, appetite is regained, and skin recovers its natural colour (17.7-8). Moreover, only a well-trained physician knows when a swelling is ready to be opened and how to prepare the patient before the surgery. Finally, seven kinds of surgical treatments are described.

A second discussion about *śopha* is found in Suśruta's *Cikitsāsthāna* 23. In this chapter, the author provides more information regarding a second type of swelling, *sarvasara* ('anasarca'), further divided into five subgroups due to *vāta*, *pitta*, *śleṣman*, *saṃnipāta*, and *viṣa* ('poisons') (Su.Ci. 23.3). The symptoms of the first four kinds coincide with those described in Su.Sū. 17, while the *viṣa-śopha* is described as soft, moving rapidly through the body, and characterised by a burning sensation and presence of pus (23.8). The chapter then proceeds to discuss both general and specific treatments of *śopha*.

The Ravigupta's *Siddhasāra*, and therefore its Tibetan and Khotanese translations, follow the *Suśrutasaṃhitā* in its description of swellings, to which more than half of chapter 24 is devoted. Noteworthy are the parallelisms between Si 24.1-6 and Su.Sū. 17.4-5, where the features of the six kinds of *śopha* are delineated. Another similarity is found in Si 24.7 and Su.Ci. 23.6-7, where the *doṣas*' position in the body influences the outbreak of swellings. In *Cikitsāsthāna* 23, *doṣas* can give rise to swellings of the upper, middle, or lower part of the body depending if they are located respectively in the *amāśaya*, *pakvāśaya*, or *malāśaya*:

bhavanti cātra doṣāḥ śvayathumūrdhvaṃ hi kurvantyāmāśayasthitāḥ |

pakvāśayasthā madhye ca varcaḥsthānagatāstvadhaḥ ||

kṛtsnaṃ dehamanuprāptāḥ kuryuḥ sarvasaraṃ tathā |

śvayathurmadhyadeśe yaḥ sa kaṣṭhaḥ sarvagaśca yaḥ ||

‘The aggravated Doshas of the body confined in the stomach (*amāśaya*) give rise to a swelling in the upper part of the body. Confined in the intestine (*pakvāśaya*), they give rise to a swelling in the middle part of the body. If they are confined in the receptacle of the faeces (*malāśaya*), the lower part of the body becomes swollen. The swelling extends all over the body in the event of their (Doshas) being diffused throughout the organism’⁴⁹⁶

Si 24.7 differs from Su.Ci. 23.6-7 in those swellings arising in the lower part of the body, due to *doṣas* residing in the *pakvāśaya*.⁴⁹⁷

de la (1) nad gzhi pho bahi nang na gnas na ni | ro stod skrang bar ‘gyur ro ||

(2) nad gzhi long gahi nang na gnas na ni | ro smad du skrang bar ‘gyur ro ||

(3) nad gzhi bar na gnas na ni bar du skrang bar ‘gyur ro ||

(4) nad gzhi thams cad du khyab na ni | lus ril gyis skrang bar ‘gyur ro ||

‘In that (connection), (1) if the (affected) humours (*doṣaiḥ*) reside in the receptacle of undigested food (*āmāśaya-sthais*) there will be swelling in the upper part (*upary*) of the body; (2) if the humours reside in the receptacle of digested food (*pakvāśaya-gatair*) there will be swelling in the lower part (*adhah*) of the body; (3) if the humours reside in the middle part (*madhya-gatair*) (of the body) there will be swelling in the middle (*madhye*); (4) if the humours penetrate (*-vyāpī*) the whole (*sarva-*) (body) there will be swelling of the entire body (*sarva-gaiḥ*)’.

With regard to the *Piṇḍaśāstra*, the information provided by the above-mentioned medical treatises may help to identify the various swellings portrayed in the *Piṇḍaśāstra*. I will, therefore, analyse each paragraph to see if a distinction exists. I divided the comment on this chapter into three distinct sections. In fact, I have reason to believe that the word *haśa*, and its synonyms, has been used to refer to different diseases, having in common the enlargement or

⁴⁹⁶ Bhishagratna 1911: 2.476.

⁴⁹⁷ For a better understanding of this *Siddhasāra*’s passage, I decided to quote the Tibetan text and translation (Emmerick 1982: 340-343).

the inflammation of a body part. The first subdivision includes the twelve initial paragraphs (§§ 16-27) and is related with swelling in the abdominal area; the second one is comprised of only two paragraphs (§§ 28, 29) and is connected with the disease of swollen feet; lastly, the remaining paragraphs (§§ 30-34) are devoted to cure skin swelling.

3.1 Swelling in the abdominal area

In this first section different substances are employed in the cure of swelling occurring in the ventral region. For instance, § 22 describes the preparation of a poultice that must be placed warm on the patient's 'bad belly' (*dirye urä*) and is used as a therapy against dropsy and swelling. From § 24 to § 27, the medicaments are tied directly on the stomach (LKh. *khāysāna-*, Skt. *āmāśaya*) to alleviate swelling (*haśa*), pain in the belly (§ 27 *jsahera vīne*), and a swollen belly due to constipation (§ 24 *paṣkāśā*).

Differently from the *Siddhasāra* or the major canonical Āyurvedic texts, the concise paragraphs of the *Piṇḍaśāstra* present few details about the diseases they are intended to cure. As a matter of fact, the various kinds of swelling are distinguished in some passages simply by their colour and their cold or hot state. Paragraph 17 is a first example in this respect. Here, a preparation made from churning wheat flour with an infusion of *aysā'ya* (or *aysāya*), an unknown ingredient occurring solely in the *Piṇḍaśāstra* (§§ 14, 17, 24),⁴⁹⁸ is said to remove *sāḍa hasve* 'cold swellings'. Among the six kinds of swelling listed in the *Suśrutasaṃhitā*, only one is described as 'cold', which is the 'swelling due to phlegm' (*śleṣmaśophaḥ*). According to Su.Sū. 17.4

*śleṣmaśophaḥ pāṇḍuḥ śuklo vā kaṭhinaḥ śītaḥ snigdho mandānusārī
kaṇḍvādayaścātra vedanāviśeṣā bhavanti*

'a swelling, brought about through the deranged condition of the kapham, assumes a grey or whitish colour. The skin becomes glossy and **cold**, and the swelling very slowly changes its original site, if it shifts at all, accompanied by pain and itching'.⁴⁹⁹

⁴⁹⁸ See also *Dict.* 6. s.v. *aysāya*.

⁴⁹⁹ Bhishagraṭna 1907: 1.156.

Although PiŚ 17 does not give further details about the visible signs of this condition, it is possible to suppose that the Khotanese *sāda hasve* ('cold swellings') may refer to the same swelling described by Suśruta.

A second and unequivocal type of swelling occurs in § 20, where a poultice made from eight ingredients (sesame, linseed, green beans, rice, yellow flowers, liquorice, milk, and cow oil) seemingly 'will remove swellings due to a combination (of the *doṣas*) (*saṃnipāta*) (and) it will purify blood vitiated by wind' (*saṃdveṇa haśā jimḍā . bina hūñā vasūje*). As already described above, a swelling due to *saṃnipāta* shares the characteristics (colours and symptoms) of all the three *doṣas*. As of my current knowledge, I have not come across any equivalent prescription to the therapy mentioned in PiŚ 20 within the Āyurvedic texts of Caraka, Suśruta, and Vāgbhaṭa. For instance, in the *Cikitsāsthāna*, Suśruta recommends drinking a decoction of clarified butter cooked with one *pātra*⁵⁰⁰ of the milky sap from *snuhi*-plant⁵⁰¹ and twelve *pātras* of fermented rice gruel mixed with the essence of *danti* (Su.Ci. 11 *sannipātaśvayathau snuhīkṣīrapātraṃ dvādaśabhiramlapātraiḥ pratisaṃsrjya dantiḍravantīpratīvāpaṃ sarpiḥ pācayitvā pāyayet*).

More frequent in the *Piṇḍasāstra* is the occurrence of *heṃjā- haśa-* ('red swelling'), whose treatments are expounded in §§ 19, 21, 23, 24, and lastly § 31, the explanation of which will be discussed separately. The first three paragraphs are very brief prescriptions differing only in the type of ingredients, while § 24 comes as a more elaborated poultice of nine components, whose properties supposedly cure the two swellings *haśa-* and *paṣkāsaā-*. In the *Siddhasāra*, the colour red is said to be a characteristic of the swelling due to wind (§ 24.2 *cu ba'ta jsa hamya līka haśaḡ guṇā . [...] cha-v-ī haryāsa hame u heṃjā* 'as for the characteristics of swelling that has arisen due to wind, [...] its complexion becomes black and red')⁵⁰² and the one due to bile (§ 24.3 *cu ttavaṃdye jsa hamye līkye haśaḡ guṇā . [...] u ysīca . u heṃjā* 'as for the characteristics of swelling that has arisen due to bile, (they are:) [...] yellow and red').⁵⁰³ On the other hand, in the Indian earliest tradition the part of the skin affected by the disease becomes reddish only in case of swellings arising from wind (see Ca.Sū. 18.7.1 and Su.Sū.

⁵⁰⁰ 'a measure of capacity' MW 613, s.v. *pātra*.

⁵⁰¹ See on Skt. *snuhī* (LKh. *sūdā-kṣīrā*) Ferrari 2017.

⁵⁰² Emmerick's unpublished critical text and translation.

⁵⁰³ Emmerick's unpublished critical text and translation.

17.4). Unfortunately, no further information is given in the *Piṇḍasāstra* regarding the Khotanese *hemjā- haśa-* ‘red swelling’, making its identification more challenging.

The remaining paragraphs of this first subdivision (§§ 18, 22, 25, 26, and 27) do not mention any specific marks of the *haśa*-disease and most likely are generic treatments. It cannot be ruled out that the *Piṇḍasāstra* does not rigorously distinguish between the various classes of swellings, as it occurs in the *Siddhasāra* and in the Indian Āyurvedic texts such as the *Suśrutasamhitā*, but simply identify *haśa-* (Skt. *śopha*) with a localised swelling often accompanied by redness and pain.

3.2 Swelling of the feet

The second group of poultices for swellings (PiŚ §§ 28, 29) is devoted to the treatment of a type of swelling located in the feet. As mentioned above, the initial paragraphs of *Siddhasāra*’s chapter 24 offer details about the treatment of Skt. *śopha* (24.1-17) but, interestingly, the following §§ 24.18-20 are also devoted to the cure of another type of swelling, called *ślīpada* (LKh. *śelīpadma*), a ‘morbid enlargement of the leg’ also called ‘elephantiasis’.⁵⁰⁴ This condition, known as lymphatic filariasis, is usually caused by parasitic worm infections and is characterised by the enlargement of body parts, especially the limbs.⁵⁰⁵ In the Khotanese Si 24.18, *ślīpada* is described as follows:

*śelīpadma nāma āchai pī u gušte vū pāroutta dva-v-ī pā hasvīṃdā śā pā drrayā
dūṣā’ jsa . buḍa va śelīṣā purrdā ṣṭāna hame peṣkece jsa drrayi-padya hame . duṣā’
hīya ttā hva hva gunā nijsvāñāre*

The disease called ‘elephantiasis’ is based on fat and flesh. His two feet swell. Now that (elephantiasis) arises (if one is) being overcome by the three humours – the phlegm is dominant among them – (and) it becomes threefold by (reason of this) analysis. (The three kinds of elephantiasis) exhibit the respective characteristics of the humours.⁵⁰⁶

⁵⁰⁴ MW 1104, s.v. *ślīpada*.

⁵⁰⁵ See Meulenbeld 1999-2002: 1B.117 for an extensive bibliography on filariasis in India.

⁵⁰⁶ Emmerick’s unpublished critical text and translation.

Not only in the *Siddhasāra ślīpada* is known to be initially located in the feet, but also in Caraka's *Cikitsāsthāna* it is said to occur 'in shanks starting from feet to the calf muscles'⁵⁰⁷ (Ca.Ci. 12.98). The *Suśrutasaṃhitā* differs slightly in the description of the origin of *ślīpada* in that it identify its starting-point 'in the thighs, knee-joints, legs and the inguinal regions'⁵⁰⁸ until it finally spreads to the feet (Su.Ni. 12.10 *vaṅkṣaṇorujānujaṅghāsvavatiṣṭhamānāḥ kālāntareṇa pādamāśritya śanaiḥ śophaṃ janayanti*).

Although the *Piṅḍasāstra* does not refer to 'elephantiasis' with the Late Khotanese technical term *śelīpadmā* adopted in the *Siddhasāra*, the disease described in §§ 28-29 is likely to be the same. Certainly noteworthy is the use in this context of *hasvā-*, rather than the more frequent *hasā-*. The occurrence of *hasvā-* also in § 126, in a poultice that should be applied 'when the lower waist produces downward swellings' (*cū na myāṃ nāṣṭā *hasvi īṃde*), may support the hypothesis of a specialised meaning of this term, denoting a swelling of the lower body parts.

3.3. Skin swelling

The last section (§§ 30-34) is devoted to a form of the *hasā-* disease affecting the skin. It is characterised by being red and hot (§ 31 *heṃje ttaudye hasā*), possibly due to some kind of inflammation, and occasionally firm (§ 33 *styūda*). A poultice is described to allow the ripening of the inflamed area (§ 32 *hūma bāva paśtā* litt. 'it matures a raw root') or, alternatively, to remove pus when this is already mature (§ 34 *ṣi' ysūrgā viranāṃ hasā jinākā peṃḍai* 'this poultice is a remover of suppurating swelling of the wounds'). In contrast with the previous finding, however, I have not been able to find similarities between this last group of poultices and the final part of the *Siddhasāra*'s chapter 24. Si 24.21-31 deal, in fact, with the disorders called *gala-gaṇḍa*, *gaṇḍa-mālā* (two enlargement of the thyroid gland at the base of the neck), *granthi*, and *arbuda*, which are all treated by surgery or cauterisation.

§ 18

⁵⁰⁷ Sharma 1998: 2.202.

⁵⁰⁸ Bhishagratna 1911: 2.83.

j(am)b(a)()drre: in *Dict.* s.v. *jbdrrre* Bailey suggests to read **jabdrre* or **jabadrre* but the interpretation proposed by him as ‘possibly to the base *gab-* “excellent”’ is not convincing.⁵⁰⁹ This unique word owes its existence to an unusually extended and complex *akṣara*. Taking a look at the manuscript (Fig 1.), four distinct characters are actually visible between the two dots that separate this word from the other ingredient. These characters appear to correspond rather clearly to the syllables identified by Bailey as *jbdrrre*. However, despite thorough research conducted in Khotanese and other languages, no ingredients corresponding to these syllables have been discovered.

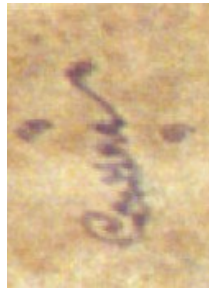


Fig. 1, § 18 (P 2893.85)

Another possible approach is to interpret this word as an abbreviation for the name of an ingredient. While abbreviations are rare, this cannot be entirely ruled out. In fact, potential candidate is suggested by Si 2.2 (Ch 10r2-4; P 74-79), where the term LKh. *jamba drraya* appears.⁵¹⁰ Cross-referencing with the Sanskrit Siddhasāra indicates that this ingredient is a loanword from Skt. *jambūtrayaṃ* ‘the three *jambū*’. The Khotanese translation comes to our help further elaborating on the names: *jaṃbi*, *jalajaṃbi*, and *mahājambā*. The term *jambū* has been associated with several types of *Myrtaceae*,⁵¹¹ including *Syzygium cumini* Linn., *Syzygium fruticosum* DC., *Syzygium jambos* Linn., *Syzygium caryophyllaeum* Gaertn., *Syzygium operculatum* Gamble, *Syzygium rubicundum* Wight et Arn., *Syzygium herbacea* Roxb., *Ardisia humilis* Vahl. This plant, often called in English ‘roseapple’ and whose fruits and bark serve medicinal purposes,⁵¹² could potentially be the ingredient mentioned in the *Piṇḍaśāstra*. The

⁵⁰⁹ *Dict.* 113, s.v. *jbdrrre*.

⁵¹⁰ I want to express my thanks to Mauro Maggi and Alessandro del Tomba for their helpful advice on this difficult part of the text. Once again, their insights have been enlightening.

⁵¹¹ See Meulenbeld 1974: 555-556.

⁵¹² See Sivarajan and Balachandran 1999: 188-190 and Sharma 1996: 147-148.

abbreviated syllable *jb-* might denote *jamba*, while the ending *-ddre* could be the numeral *draya* ‘three’. Therefore, I suggest integrating the text as follows: *j(aṃ)b(a)()drre*.

§ 22

gurgula ‘Indian bdellium’ (*Balsamodendron mukul* Hook. (= *Commiphora mukul* Eng.) or *Boswellia glabra* Roxb. (= *Boswellia serrata* Roxb.))

Three occurrences of *gurgula bua*’, literally ‘*gurgula* perfume’, are attested in Late Khotanese medical texts. The first one is found in the *Piṇḍaśāstra* (§ 22), in a poultice against swelling and dropsy, while the other two occur in the *Siddhasāra*, in a group of drugs employed as a cure against pimples, itches, poison, wind, and phlegm (§ 2.4 [Ch 10v1-4; P 83-88]) and in a decoction against swelling disease (§ 24.12 [Ch 139v2-3]). Even though in the *Siddhasāra* passages the word corresponds to Skt. *pura*, both Tibetan *gu-gul* and Khotanese *gurgula* are direct loanwords from Skt. *gulgulu*.⁵¹³

From the botanical point of view, *gulgulu* and its synonyms (*mahiṣākṣa*, *palaṃkaṣa*, and *pura*)⁵¹⁴ have been identified with *Balsamodendron mukul* Hook. or *Commiphora mukul* Eng., a flowering and thorny shrub or small tree from the Burseraceae family, commonly known in English as ‘Indian bdellium’ or ‘gum-gugul’.⁵¹⁵ The *gulgulu* gum is renowned for its oily resin, whose fragrance resembles myrrh, and is often used in incense, perfume, or medical pastes, and ointments. In addition, *gulgulu* is also equated with *kapitthaparnī*, a similar plant identified with *Boswellia glabra* Roxb. or *Boswellia serrata* Roxb.⁵¹⁶ This shrub is known in English as the ‘Indian olibanum’ or ‘Frankincense’, whose ‘fragrant resin is largely consumed as an incense in houses especially during religious ceremonies’.⁵¹⁷

⁵¹³ Dragoni 2022:104-105 suggests a possible derivation of the loanword *kurkal* ‘bdellium’ in Tocharian B from a LKh. *gurgula* and hypothetically dates the borrowing after the Old Khotanese stage. See also Emmerick 1985a: 303.

⁵¹⁴ Si.Ni 51.

⁵¹⁵ Nadkarni 1954: 167-170

⁵¹⁶ Zysk 1985: 258.

⁵¹⁷ Nadkarni 1954: 211-212.

The employment of this shrub, and in particular of its resin, is widely attested in different traditions of many Indian medical systems (e.g. Siddha, Tantric, Unani, and Āyurvedic medicine). Our first knowledge on the uses of the *gulgulu* (or *guggulu*) plant dates back to the earliest textual evidence of Indian medicine, in particular in Vedic sources, where herbs and trees were considered important ritual objects with healing properties. One of the first occurrences is recorded in the Atharvaveda, in a woman's ceremonial rite, performed by the religious officiant in order to obtain a husband. In the last verses of the hymn (AVŚ 2.36.7-8), the *gulgulu* plant is listed together with gold and *aukṣa*,⁵¹⁸ possibly a fragrant product or a balsam:

idaṃ hiranyaṃ gulgulv ayam aukṣo atho bhagaḥ
ete patibhyas tvām aduḥ pratikāmāya vettave
ā te nayatu savitā nayatu patir yaḥ pratikāmyaḥ

'Here is gold, bdellium; here [is] *āukṣá*, likewise fortune; these have given thee unto husbands, in order to find one according to thy wish. Hither let Savitar conduct for thee, conduct a husband that is according to thy wish; do thou assign [him] to her, O herb'.⁵¹⁹

While the ritual was recited, the maid may have been fumigated or anointed with the *gulgulu* and *aukṣa*, and adorned with gold. Perhaps, this pleasant scent combined with the incantation may have attracted into the room a benevolent demon, which would have helped her to obtain the love of a husband. Alternatively, these items may have been offered as the woman's dowry.⁵²⁰ With reference to this passage, Zysk pointed out that the *gulgulu* plant 'was brought from afar by means of maritime trade. This tended to make it valuable and expensive commodity which is listed along with gold, *āukṣa* (perhaps an ointment) and fortune [...] Such

⁵¹⁸ According to Bloomfield 1897: 324 'it seems to be simply "bull's grease"' or 'balsam'.

⁵¹⁹ Ed. Orlandi 1991 (consulted online on 31 July 2023 http://gretil.sub.uni-goettingen.de/gretil/1_sanskr/1_veda/1_sam/avs_acu.htm); trans. Whitney and Lanman 1905: vol. 1, 82-83.

⁵²⁰ See also Bloomfield 1897: 322-325.

an early mention of the auspicious uses of this scent is significant especially in light of the later uses of incense and fumigation in India'.⁵²¹

In addition to being known as a valuable product acquired from far by trade, the *gulgulu* plant was also held in high regard for its healing properties against *yākṣma* disease. This disease was caused by supernatural entities, which after possessing the person's body gave rise to a wide range of disorders, whose symptoms have been identified with consumption (tuberculosis).⁵²² In AVŚ 19.38 a charm is recited to expel an internal demon, while burning *gulgulu* and invoking its power:

*na taṃ yakṣmā arundhate nainaṃ śapatho aśnute
yaṃ bheṣajasya gulguloḥ surabhir gandho aśnute
viṣvañcas tasmād yakṣmā mṛgā aśvā iverate
yad gulgulu saindhavaṃ yad vāpy asi samudriyam
ubhayor agrabhaṃ nāmāsmā ariṣṭatātaye*

'Neither the *yākṣmas*, O Arundhatī, nor a curse reaches him whom the pleasant scent of the medicinal *gulgulu* (bdellium) reaches from him [who is permeated with its scent], the *yākṣmas* disperse in all directions, like deer [or] horses. Whether, O *gulgulú*, you are from the Sindhu or whether [you are] from the ocean, I have taken the name of both [kinds], so that this man may be unharmed'.⁵²³

The magic properties of burned bdellium were known in early Tantric rituals as well. In the medieval Bhūta Tantras, whose chapters focus on curing possessions and fevers, plants play an essential role in exorcism rituals against unwanted demons.⁵²⁴ An incense made of neem

⁵²¹ Zysk 1985: 14.

⁵²² Cf. Zysk 1985: 12-17. See on *yākṣma* also Emmerick 1993: 84-85.

⁵²³ Ed. Orlandi 1991 (consulted online on 31 July 2023 http://grettil.sub.uni-goettingen.de/grettil/1_sanskr/1_veda/1_sam/avs_acu.htm); trans. Zysk 1985: 17. Cf. also Bloomfield 1897: 40 (translation) and 675-676 (commentary).

⁵²⁴ Slouber 2016: 145-146.

leaves and *gulgulu*, burnt while reciting a long mantra, was said to attract and trap the evil spirits into the room where the exorcism was performed.⁵²⁵

In the Āyurvedic tradition *gulgulu* was equally held in great consideration. One of the earliest discussion on this plant is found in the *Cikitsāsthāna* of the *Carakasamhitā*, where it is employed in the treatment of *udara* (Ca.Ci. 13.153). An accurate description of the therapeutic properties of *gulgulu* is instead offered by Suśruta in the *Cikitsāsthāna* (Su.Ci. 5.40-45). The plant is described as fragrant (*sugandī*), light (*sulaghu*), small (*sūkṣma*), sharp (*tīkṣṇa*), hot (*uṣṇa*), pungent in taste (*kaṭuka-rasa*) and digestion (*kaṭupāka*), purgative (*sara*), good for the heart (*hṛdya*), oily (*snigdha*), and slimy (*picchila*). When young, the plant is aphrodisiac (*vṛṣya*) and nourishing (*bṛṃhaṇa*); when old, it is effective against obesity. It cures a wide range of diseases, including internal tumours (*gulma*), urinary disease (*meha*), retention of discharges (*udāvarta*), enlargement of the abdomen (*udara*), and intestinal worms (*kṛmi*).⁵²⁶

ysāluā- ‘Indian barberry (*Berberis aristata* DC.)’: For *ysāluā-* ‘barberry’ (*ysālva* §§ 30 122, *ysvālva* § 128) cf. *Studies* 3.131 s.v. *ysāluā-* and 1.106 s.v. *ysālva*.

§ 34

arūva and **arva:** *arvā-* is a LKh. outcome of OKh. *aruvā-* ‘medicine, drug’ and is used to render Sanskrit *auśadha*, *dravya*, and *bheṣaja* and Tibetan *smān* in many passages of the *Siddhasāra*. The word is rather frequent also in the *Book of Zambasta*, e.g. Z 6.12 *aruvyau’ jsa ṣu jīvai sūste alysāgyo āchā jändā* ‘with herbs did Jīvaka treat the maiden. He removes her illnesses’,⁵²⁷ Z 13.103 *kye ttārā pharu hoḍe anaṃ kiṣṭā aruvo’ hatāḍaru / balysā sarvaṃñi hastamā . balysā ṣā vā āchinei hāmīya* ‘the Buddha who once gave away so many countless medicaments, the all-knowing, best Buddha, would he then become ill?’,⁵²⁸ Z 13.107 *karmānu*

⁵²⁵ Slouber 2016: 152-153.

⁵²⁶ See on the uses of *gulgulu* Sharma 1996: 124-127. For an extensive bibliography on the actions and characteristics of this plant see Meulenbeld 1999-2002: 1B 119.

⁵²⁷ Emmerick 1968: 118-119.

⁵²⁸ Emmerick 1968: 200-201.

aruvo 'balysä butte' 'the Buddha knows the medicament for *karmas*',⁵²⁹ or Z 17.6 *aruve* 'vicitre . raysāyana buśśañä sp[äte]' 'various herbs, elixirs, perfumes, flowers'.⁵³⁰

Among the forms of this word there is one occurrence in PiŚ § 34 that can be mistakenly interpreted as an alternative reading of LKh. *arvā-* (OKh. *aruvā-*). The form *arūva*, in fact, might in principle be a variant spelling of OKh. *aruva*, even though no other occurrence has been found in Khotanese texts. However, in § 34 *arūva* occurs among other ingredients, which immediately rules out the general meaning 'medicine, drug'. I suggest as an alternative to interpret *arūva* as a loanword from Skt. *uruvūka* '*Ricinus communis*',⁵³¹ which occurs in Si 5.78 (Tib. *sle tres*), not preserved in Khotanese. The development of OKh. *u-* > LKh. *a-* in an unstressed initial syllable is not unusual, as for instance in the OKh. prefix *us-* > LKh. *as-* (e.g. *aspaśd-* 'to produce, cause' [Si 19r3] for OKh. *uspaśd-*).⁵³² The loss of Skt. intervocalic *-k-*, to be ascribed to a Prakrit intermediary, caused a hiatus, which was filled in Khotanese with the glide *-v-* [w]. The OKh. outcome **aruvūva-* [aruwu:wa] developed regularly to LKh. *arūva*, with the usual contraction of **-uvū-* > *-ū-*.⁵³³

raustarä 'mudar (tree)' (*Calotropis gigantea* Linn., *Calotropis procera* Ait.): LKh. *raustara* correspond to Skt. *arka*, which is known in the Āyurvedic tradition for its strong caustic action. See on *raustara-* Emmerick 1983: 47-48, Sharma 1996: 19-23, and Sivarajan and Balachandran 1994: 52-54.

⁵²⁹ Emmerick 1968: 202-203.

⁵³⁰ Emmerick 1968: 256-257.

⁵³¹ MW 218 s.v. *uruvūka*.

⁵³² SGS 230.

⁵³³ See also SGS 295-296.

4. Fourth chapter: Poultices to apply on the liver

The fourth chapter of the *Piṇḍasāstra* (§§ 35-48) is devoted to the preparation of poultices that should be administered by placing them on the liver (LKh. *jara-* < OKh. *gyagarra-/ jatārra-* < OIr. **iakṛna-*). Each paragraph describes in a few words signs and symptoms of various disorders related to the liver and recommends a treatment. As observed by Meulenbeld, despite its importance in modern medicine as an organ performing many essential biological functions, 'diseases of the liver are rarely mentioned in Āyurvedic texts, whereas they are much more important, as well as the organ itself, in Greco-Roman medicine'.⁵³⁴ It is then interesting that the *Piṇḍasāstra* devotes a quite long section of the text to the treatment of this organ.

One of the earliest references to the liver is found in the *Vimānasthāna* of the *Carakasamhitā*, whose chapter five provides a description of the bodily channels, or vessels that transport *dhātu* (e.g. blood, vital breath, water, digested food, nutritive juice, muscular, fatty, and bone tissues, etc.). Here, the vessels carrying *rakta* ('blood') are considered to be originated in the liver (Skt. *yakṛt*) and spleen (Skt. *plīhan*) (Ca.Vi.5.8). The author of the *Śārṅgadhara*, a famous compendium from the 1300 ca., likewise sees the liver as the site of blood-bile and the receptacle of blood (I.5.36). Further details regarding this organ are given by Caraka in the *Śārīrasthāna* 7.10, where he mentions the liver between the fifteen viscera (Skt. *koṣṭhāṅgāni*) of the human body, together with the spleen, navel (Skt. *nābhi*), heart (Skt. *hṛdaya*), and the two receptacles of undigested and digested food (Skt. *āmāsaya* and *pakvāsaya*). According to the earliest sources, diseases affecting this organ are manifested by the enlargement of the liver. Varieties of liver enlargement (Skt. *yakṛddālyudara*) are described in the *Carakasamhitā* (*Cikitsāsthāna* 13), in the *Suśrutasamhitā* (*Nidānasthāna* 7), and in the *Aṣṭāṅgahṛdayasamhitā* (*Nidānasthāna* 12), where, however, in the chapters devoted to *udara*, the liver is included in the type of *udara* caused by the enlargement of the spleen (Skt. *plīhodara*). Surprisingly, the liver is not mentioned in the *Siddhasāra*, while it occurs several times in the *Jivakapustaka* (§§ 10 [57v3], 12 [61r1], 69 [103r5], 74 [105v4], 87 [114r3]).

The therapies prescribed in the *Piṇḍasāstra* are employed to cure not only pathologies directly related to the liver, such as severe pain (§§ 40 and 47) or stiffness (§ 41), but also disturbance of breath (§§ 38 and 42 *ūyṣṇa āphārā*), cough (§§ 39 *phāhā'* and 42 *phāhi'*),

⁵³⁴ Meulenbeld 1999-2002: 1B.118.

general and red swellings (§§ 38, 48 *haśü*, and 39 *hiṃja haśü*), tumours of liver, stomach, bladder, and wind internal tumour (§ 48 *jara vī . khāyśāñā . phiysgāñā . gauṃma jidä [...] u vātāṣṭhīlai*). Furthermore, it is worth noticing the strong purifying action ascribed to these poultices, particularly in § 45 where the medicament, after being tied for five days on the liver, will cleanse it from any diseases.

§ 38

ūyśāna: See Maggi in *Studies* 3.28, s.v. *uysanā*-.

5. Fifth chapter: Poultices to apply on the spleen

The brief chapter five contains six recipes of poultices that ‘must be tied onto the spleen’ (*ṣpajjai bidā bañāñā*) to overcome fever (§§ 52-54), *parigraha* (§52), and pain (§ 55). Unlike liver, more consideration is given in the Āyurvedic texts to the function of this organ and to how diseases can affect it. Located on the left side of the body, the spleen together with the liver is traditionally considered to be the origin point of vessels carrying blood (see also on chapter four). In the fourteen chapter of the *Sūtrasthāna*, Suśruta highlights the significant contribution of spleen in the metamorphosis of the nutritive juice (Skt. *rasa*) into blood. The nutritive juice is the finest essence of digested food, which sustains the whole body and from the heart, its primarily location, moves through the body, body tissues, *doṣas*, organs, and impurities. When finally *rasa* reaches the kidneys and spleen, it becomes red and gives rise to blood (14.4-5).

Regarding the disorders that may affect this organ, the most common is certainly *plīhodara* ‘swelling of the spleen’, often found in the abbreviated form *plīhan*.⁵³⁵ One of the first accounts on this disease occurs in the *Carakasamhitā*. According to the eleventh chapter of the *Sūtrasthāna*, three are the pathways of diseases: the extremities, the vital points together with the joints, and the viscera (Ca.Sū. 11.48). Caraka enumerates several disorders belonging to these categories and among the diseases that pertain to the viscera (Skt. *koṣṭha*) he includes the spleen enlargement (11.49). The aetiology, symptomatology, and treatment of different varieties of *plīhodara* are described in the three canonical Āyurvedic compendia, in particular in Ca.Ci. 13.35-38, Su.Ni. 7.14-16, Su.Ci 14.13, A.h.Ni. 12.22-27, and A.h.Ci. 15.85-98, A.s. 12.24-29, A.s.Ci. 17.33). Differently from the *Suśrutasamhitā*, the *Carakasamhitā* distinguishes two types of *plīhodara*, the first one due to the displacement of the spleen from its normal place and the second one due to the increase of blood. In Cakrapāṇidatta’s commentary the first kind is furthermore divided into four *doṣic* types, making a total of five, including the one arising from blood.⁵³⁶ Vāgbhaṭa follows the *Carakasamhitā* in dividing *plīhodara* into two different kinds. Meulenbeld underlines the special position that this disorder holds among the different

⁵³⁵ Meulenbeld 1991: 104.

⁵³⁶ Meulenbeld 1991: 95.

varieties of *udara* and its peculiar nature as a disease caused by blood.⁵³⁷ The main symptoms are swelling on the left side of the abdomen, weakness, indigestion, mild fever, body-ache, etc.

Medical treatments of splenic disorders are attested in Khotanese medical texts as well. While no occurrences of *ṣpaijaa-* ‘spleen’ have been documented in the Khotanese *Siddhasāra*, this word is found several times in the *Jīvakapustaka* (*ṣpaijai* §§ 8 (55r1), 10 (57v4), 12 (61r1), *ṣpaijā* §§ 13 (61v3), 18 (64v5), *ṣpiṃjīmna* § 22 (67v4), *ṣpiṃjām* § 23 (69r1), *ṣpiṃjim* §§ 40 (83v1), 69 (103r5),⁵³⁸ 74 (105v4), 87 (114r5), 90 (115v2)) and two times in the *Piṇḍasaptaka* (*ṣpaijai* 100r1-2). As well as in the *Piṇḍasāstra*, the *Jīvakapustaka*’s patients may exhibit fever or pain when they are suffering from spleen disorders.

§ 48

parigrahā jīṃdā: The sentence is translated as ‘it will remove *parigraha*’ and occurs in §§ 48 and 52. The term *parigraha* clearly refers to a symptom or to a specific disorder but its origin and meaning are unclear. *parigraha* occurs also in Z 12.71, in the sentence *ttuware ṣṣāvvyau jsai nāsāñā vicitra parigraha ttrāma cu ṣṣāvānu anāśśa*, which Emmerick translates ‘from him much rather than from the Śrāvakas should one accept various goods such as cannot be accepted by the Śrāvakas’.⁵³⁹ Emmerick interprets this term as a loanword from Skt. *parigraha*, meaning ‘possession, property’⁵⁴⁰ and translates accordingly (i.e. ‘goods’). A further occurrence is found in an Old Khotanese sūtra fragment, found in Khadaliq near Khotan, in the sentence *u ne parigrahā*.⁵⁴¹ However, *parigraha* is never used in medical contexts in both Sanskrit and Khotanese texts, with the only exception of the *Piṇḍasāstra*. Another possible interpretation would be to consider *parigraha* as a compound name containing the Skt. word *graha*. This term occurs several times in the *Jīvakapustaka* and refers to different types of demoniacal

⁵³⁷ Meulenbeld 1991: 95.

⁵³⁸ Konow 1941: 69 translates *ṣpiṃjim* as ‘milt’ (actually ‘animal spleen’, ‘fish sperm’) instead of ‘spleen’. This is obviously due to the influence of ‘milt’ ‘spleen’ in Norwegian, Konow’s native language.

⁵³⁹ Emmerick 1968: 174-175.

⁵⁴⁰ MW 371, s.v. *parigraha*.

⁵⁴¹ *KBT* 4.43v3.

possession'.⁵⁴² An interesting example is JP 65 (100v2-100v5) where a fat called *Yakṣataparṇa* is said to remove various kind of graha (*grraha jṛṇḍa*):

ysīḍiṃ śaśvāṃ aṃgauṣḍi kuṣṭha ysambastā sadhalūṃ

āra rūsthara : ṣā' pṇa arva drrim drrim mēcāṃga štāka gvīha' rū śau śiṃga

*cākalīṇa bīysma dva śiṃga aśa hīvī samṇa hīva raysā ṣi' rūṃ pāchā yakṣa-ttarpaṇa
nāṃma apasmāra graha āstaṃna*

*graha jṛṇḍa : ttavi unmāda skāṇḍa grrahā pharāka hauvana grrahaja āchā cīra
kāmanī grraha āstaṃna grraha jṛṇḍa*

'yellow mustard asa foetida, kuṣṭha, garlic, rock salt, acorus calamus, swallow-wort, – each of these drugs – 3 mēcāṃga each required, cow's fat – 1 śiṃga, goat's urine – 2 śiṃga, juice of the dung of a pig horse; this fat should be cooked , Yakṣataparṇa by name, **it overcomes the grahas beginning with Apasmāragraha**, fever, unmāda, **Skandagraha**, many powerful grahaborn diseases, **overcomes the grahas beginning with Kāminīgraha**'.

This interpretation seems to be more suitable to the context but remains hypothetical.

⁵⁴² Konow 1941: 89.

6. Sixth chapter: Poultices to apply on the navel

This chapter deals with the preparation of poultices that must be applied on the navel. The Late Khotanese word *nihāṣṭā*, which occurs in the chapter heading (§ 56), is formed with the directional suffix *-āṣṭa* (OKh. *-ālsto*)⁵⁴³ and the word *nāha-* (with the variant spellings *neha* §§ 57-58, *neha'* § 60, *nihā* §§ 59-62, *nihä* § 61, and *nihä'* § 80), literally meaning 'navel'. In other Khotanese medical texts, *nāha-* occurs once in the *Siddhasāra* (*nehä* 19.11[Ch 122v4]), where the patient is said to experience heat in the navel '(in the case of obstruction of the faeces) that has arisen due to bile' (*ttavaṃdye jsa hamye . nehä . ttausāma hame*) and once in the *Piṇḍasaptaka* (v4), although the term seems here to refer to the centre of a vessel (*gaiṣa naihai* 'to the navel of the *gaiṣa*-pot').

Listed among the fifteen viscera (Skt. *koṣṭhāṅgāni*) in Ca.Śā. 7.10, the navel (Skt. *nābhi*) occupies a relevant place in the Āyurvedic tradition. In *Śārirasthāna* 7, of the *Suśrutasamhitā* a chapter devoted to *sirās*, that is any tubular vessels of the body, the umbilical region is considered the origin point of all these seven hundred channels that provide nourishment and sustenance to the body (7.3). Thus, the navel, seat of the *prāṇas*, resembles the nave of a wheel that supports its spokes (7.4-5).⁵⁴⁴ This area of the abdomen is also regarded as one of the several body *marman*, the vulnerable and vital point located in the *sirās*, muscular tissue, ligaments, bones, and junctures (Su.Śā. 6, A.h.Śā. 4).⁵⁴⁵ The navel, a *marman* of the legs (Su.Śā. 6.6), or of the lower body according to Vāgbhaṭa's subdivision (A.h.Śā. 4.17), is classified into the category of *sadyahprāṇahara*, the group of vital points considered instantly fatal (Su.Śā. 6.9). This vulnerable body part, located between the stomach and the intestine, corresponds to the size of a person's own palm (A.h.Śā. 4.60-63) and, if injured, it causes a flow of blood, excessive thirst due to the increase of heat, dizziness, sharp pain, and finally death (4.47-51).⁵⁴⁶

⁵⁴³ See Degener 1989: 105-112 and 109 s.v. *nihāṣṭā* and *Studies* 2.72-73.

⁵⁴⁴ Bhishagratna 1911: 2.191-192.

⁵⁴⁵ Bhishagratna 1911: 2.173-190 and Meulenbeld 1999-2002: 1A.413. See also Wujastyk 2003: 241-242.

⁵⁴⁶ Meulenbeld 1999-2002: 1A.413.

The *Piṇḍaśāstra* provides the recipes of six poultices (§§56-62), which are said to stimulate the appetite, remove wind-bile (Skt. *vātapitta*, a form of rheumatism)⁵⁴⁷ and dropsy, and cleanse the belly.

§ 61

tharkä: For LKh. *tharka* ‘walnut’, a loanword from Tibetan *star ka*, see Emmerick 1985: 306.

§ 62

mācāṃgye: LKh. *mācāṃgā-* refers to measure of weight, see on this topic in Khotanese medical texts also Emmerick 1979a. Cf. other unit of measure in the *Piṇḍaśāstra*: *akṣara-*, *kabā-*, *prūyā-*, *vasīya-*, *śiṃga-*, *ṣaṃga-*, and *sira-*.

⁵⁴⁷ MW 934, s.v. *vātapitta*.

7. Seventh chapter: Poultices for scrotal enlargement and downward motion

The interpretation of chapter seven, which consists of ten prescriptions (from § 64 to § 73), is problematic, as it depends on the interpretation of two diseases expressed in § 63, namely, *naraiya* and *nāṣṭā āchām*.

7.1 *naraiya* ‘scrotal enlargement’

The word *naraiya* occurs four times in the PiŚ (§§ 63, 65, 66, 67) and two times in the JP (*narīyi* § 31 [77r2], *narīṃyi* § 68 [102v1]). Under this heading, Bailey suggests the meaning ‘hernia’, ‘from *niž-raik-* or *niž-raig-*, to Oss. D. *berindzun*, *beriyt*, *beriyd* “to stretch, yawn, press, force open (**apai-raik/g*)”’,⁵⁴⁸ In his provisional edition, Emmerick probably follows Bailey’s hint and translates ‘hernia’ as well. On the other hand, Konow translates the occurrence in § 68 as ‘hernia’, while he prefers ‘scrotal enlargement’ in § 31.⁵⁴⁹ In JP 31 the word corresponds to Skt. *vardhman* ‘internal rupture, hernia’,⁵⁵⁰ whereas it has no Sanskrit counterpart in JP 68.

An alternative is suggested by a passage in chapter 13 of the *Siddhasāra*, where the description and the remedies against piles and genital fistula are expounded. Bailey translates in Si 13.35 (Ch 102r3-102v2) *u rīyai hā puṇvāñā* as ‘and is to be inserted into the anus’, where according to him *rīyai* is a hapax from *rai-* ‘to defecate’ or *raik-* ‘to pour out, leave’.⁵⁵¹ Bailey’s interpretation of this word is probably influenced by the same passage in the Tib. *Siddhasāra*, which reads *rkub tu brdzangs la* ‘pass it into the anus’.⁵⁵² As for the initial *na-* in *naraiya*, it derives either from the preverb *na(l)-*, *naṣ-* < Ir. **niš-/*niž-*⁵⁵³ ‘out’ or the preverb *ni-* < Ir. **ni-*⁵⁵⁴ ‘down’ and the aforementioned root *rai-*. Following this hypothesis, *naraiya* would refer

⁵⁴⁸ *Dict.* 175, s.v. *naraiya*.

⁵⁴⁹ Konow 1941: 41 and 67.

⁵⁵⁰ MW 926, s.v. *vardhma*.

⁵⁵¹ *Dict.* 364.

⁵⁵² Transl. by Emmerick 1982: 241.

⁵⁵³ See SGS 232-234.

⁵⁵⁴ See SGS 234-235.

to a body region, more precisely an area near the anus. This is extremely hypothetical, however.

Although I have not been able to explain *naraiya* by any Iranian certain etymology, I believe that another interpretation of the word is possible, if we rely on the context and on the analogies with other Āyurvedic texts.

In *Dict.* 175 s.v. *naraiya*, Bailey quotes the Skt. word *vardhman*. Even though the earlier tradition is acquainted with this condition (see A.h.Ci. 21.33; A.s.Ci. 15.17, 18.9, A.s.Ka. 4.11, 5.55), it is only with Vṛnda's *Siddhayoga* (ca. 800-950 C.E.) that *vardhma(n)* acquires the independent status of a new disease.⁵⁵⁵ Before that, in fact, *vardhma* was considered a synonym of 'vṛddhi' or "enlargement of the *phala-kośa* or scrotum", as Hoernle describes it in his translation of the Bower ms where the word appears several times (II.208, 230, 272, 317, 334, 644).⁵⁵⁶ A clear description of the aetiology and characteristics of *vṛddhi* is provided by Suśruta in chapter 12 of the *Nidānasthāna* (12.3-6), while chapter 19 of the *Ciktsāsthāna* (19.3-24) is devoted to its treatment. In Su.Ni. 12.4, Suśruta gives an accurate description of this disease:

*adhaḥ prakupito anyatamo hi doṣaḥ phalakośavāhinīrabhiprapadya dhamanīḥ
phalakoṣayorvṛddhiṃ janayati tām vṛddhimityācakṣate*

'Any of the *doṣas* having got vitiated in the lower portion, enters the channels of scrotum and produces its swelling: the same is called *vṛddhi*'⁵⁵⁷

Accordingly, *vṛddhi* is considered as an 'enlargement of the scrotum' caused by the excited *doṣas* in the lower half of the abdomen. More precisely, seven different types are distinguished (Su.Ni. 12.3; 6), due to the three *doṣas*, blood (*śoṇita*), fat (*meda*), urine (*mūtra*) and intestine (*antra*). Each of them show distinct symptoms, i.e. pain in the bladder, penis, and waist, obstruction of *vāta*, swelling and pain of the scrotum (Su.Ni. 12.5).⁵⁵⁸

⁵⁵⁵ Meulenbeld 1999-2002: IIB 80.

⁵⁵⁶ Hoernle 1893: 2.105 fn. 111.

⁵⁵⁷ Transl. by Singhal et al. 1972: 177.

⁵⁵⁸ Singhal et al. 1972: 177-179.

The disorder of *vṛddhi* occurs also in Ravigupta's *Siddhasāra*, where chapter 18 shows some interesting correspondences with the Su.Ni. 12 and Su.Ci. 19 of the *Suśrutasamhitā*. This chapter is devoted to the treatments of three different diseases, translated by Emmerick as follows: Si 18.1-24 'retention of the urine' (Skt. *mūtra-kṛcchra*), Si 18.25-41 'disease of male organ' (Skt. *upadaṃśa*), and Si 18.42-57 'disease of swollen testicles' (Skt. *vṛddhi*).⁵⁵⁹ Two of these disorders (*vṛddhi* and *upadaṃśa*) appear also in the Su.Ni. 12 and Su.Ci. 19. On the other hand, the third disease of *mūtra-kṛcchra* described in Si 18.1-24, diverges from the passages in the Su.Ni and Su.Ci, where the final paragraphs are devoted to the aetiology of *ślīpada* ('morbid enlargement of the leg, elephantiasis').⁵⁶⁰

Unfortunately, chapter 18 of the Khotanese *Siddhasāra* is preserved only from the fragmentary § 18.53 (Ch 121r1) to § 18.57 (Ch 121r4-5), where the treatments of *vṛddhi* due to *meda* ('fat'), *mūtra* ('urine'), and *antra* ('intestine') are described. While the Sanskrit *Siddhasāra* uses the traditional terms to refer to the three different types of *vṛddhi*, the Khotanese version prefers to adopt a full, and perhaps more comprehensive, sentence to describe the diseases.⁵⁶¹ Thus, we have Si 18.54 *pī huṣāṃe jsa hamye dānāṃ nirāṃe hīvī āchai* 'in the case of the disease of emerging of the testicles that has arisen due to increase of fat' (Skt. *medo-vṛddhau*), Si 18.55 *ci bīysme jsa hamye āchai* 'in the case of the disease (of emerging of the testicles) that has arisen due to urine' (Skt. *mūtra-jāṃ*), and Si 18.56 *ce rrutāṃ jsa narṣṭīka*⁵⁶² 'as for one who has a rupture due to the intestines'⁵⁶³ (Skt. *āntravṛddhi*).

In the light of this information and on the correspondence between Skt. *vardhma*, a synonym of *vṛddhi*, and LKh. *nariyi* in JP 31, I translate the occurrences of *nariya* with a generic 'enlargement of the scrotum'.

⁵⁵⁹ Emmerick 1982: 284-295.

⁵⁶⁰ MW 1104, sv. *ślīpada*.

⁵⁶¹ This is not unusual in Khotanese medical treatises. As shown by Konow 1941: 6 groups of ingredients such as *triphala* or *daśamula* are very often substituted in the Khotanese version by an enumeration of ingredients. Likewise, in Khotanese medical texts, e.g. *Jīvakapustaka*, we find a more detailed description of medicament preparations which, according to Konow, it 'seems to point out the existence of a commentary'.

⁵⁶² For *narṣṭīka* see *Studies* 1.111-112, s.v. *varṣṭe* 'to increase in size'. Emmerick here translates LKh. *narṣṭīka* as 'having a rupture or hernia' from **ni-riṣṭa*. See also Degener 1989: 127-127.

⁵⁶³ Emmerick's unpublished edition and translation.

7.2 *nāṣṭā āchām*

The word *nāṣṭā* is the Late Khotanese form of the Old Khotanese adverb *natālsto*, formed by *nata-* ‘low’ with the directional suffix *-ālsto* and meaning ‘downwards’.⁵⁶⁴ Since in §§ 63 and 71 *nāṣṭā* precedes the substantive *āchaa-* ‘disease’ (§ 63) and *hasvā-* ‘swelling’ (§ 71), it can be considered as an adjective and literally translated as ‘downward disease’ and ‘downward swelling’. The term *nāṣṭā* occurs several times also in the *Siddhasāra*, where in some passages seems to refer to retention of faeces. For instance in Si 2.27 ‘(the disease in which) the downward motion fails’ (*nāṣṭā-ga kaṣṭe*), where the Sanskrit version has *ānāha* ‘constipation’, or Si 3.23.4 ‘when the downward movement is bound, it frees it’ (*cu nāṣṭā-ga baitte ttu prahāje*). On the other hand, Si 23.7 describes a case of ‘dysentery’ (Skt *atisāra*) and states that the patient ‘(has) downward motions’ (*nāṣṭa-tsume*).

§ 64

sambhārā: *sambhāra* occurs four times in the *Piṇḍasāstra* (§§ 64, 68 (2×), 73). This term is probably a loanword from Skt. *sambhāra* meaning ‘equipment, maintenance, support’.⁵⁶⁵ No occurrences have been found within a medical contexts, while it has been recorded in Khotanese Buddhist texts. In his provisional translation, Emmerick translates *sambhāra* as ‘support’, perhaps referring to the intestines. However, the meaning remains uncertain.

vahaiysāre ‘descend’: On the verb *vahīys-* see SGS 122, Emmerick and Róna-Tas 1992b: 222, and *Dict.* 382, s.v. *vahīys-*.

mistye hvaṇḍe . ā valakyä ṣīkā ‘for an adult man or a young child’: Under the heading *valaka* Bailey quotes this passage and translates it as ‘of adult man or young child’.⁵⁶⁶ The adjectives gen.-dat. sg. m. *māsta-* and *valaka-* may also be respectively translated as ‘great, big’ and ‘small, little’, offering the alternative interpretation of ‘a big (=tall?) man and a small child’. I prefer to follow Bailey’s hint, which is probably more appropriate in the present context. In

⁵⁶⁴ See Degener 109.

⁵⁶⁵ MW 1179, s.v. *sambhāra*.

⁵⁶⁶ *Dict.* 378. See also 409 s.v. *ṣṣīka*. See also Degener 1898: 127-128 and 315 for a detailed analysis of *ṣṣīka*.

fact, similar expressions, in which a prescription is suitable or unsuitable for both adult (or elderly) and young people, can also be found in other medical texts. Suffice it to mention three examples, from the *Jīvakapustaka*, the *Siddhasāra*, and the *Sūtrasthāna* of the *Suśrutasamhitā*:

JP 11 (59r4)

valakāṃ u ysādāṃ ṣi' hami ṇi māṃñāṃdā mahāveṭī rūṃ

To young and old it is like nectar – the Mahāvaideha fat.⁵⁶⁷

Si 1.39 (Ch 7r3-4; P 23-24)

cu aysdau u ysamgarā . tte kṣā'rāṃ arvāṃ u dai u hūñā pasāme khīṇḍai krra striha ni tcerā || krra-v-ai hoga tcerā .

As for young and old, to him a severe treatment like (the use of) alkalis (and) drugs and (the use of) fire and the letting of blood is not to be applied. A gentle treatment is to be applied to him.⁵⁶⁸

Su.Sū. 11.9

ahitastu

*raktapitta(ā.ti)jvaritapittaprakṛtibālavr̥ddhadurbalabhramamadamūrcchātimiraparī
tebhyo+anyebhyaścaivaṃvidhebhyaḥ*

Alkalis or alkaline potions will prove positively injurious to a patient laid up with fever or haemoptysis, to a man of bilious temperament, to an infant, or to an old man.⁵⁶⁹

kaṇḍārya ‘wild eggplant’ (*Solanum virginianum* Linn., *S. xanthocarpum* Schrad. & Wendl., *S. surattense* Burm.): The LKh. *kaṇḍārya* is a loanword from Skt. *kaṇṭakārikā* and occurs several times with variant spellings in the Khotanese Si (2.1, 2.5, 2.6, 2.11, 21.11, 26.50, 26.51, 26.79), in

⁵⁶⁷ Konow 1941: 24-25.

⁵⁶⁸ Emmerick’s unpublished critical text and translation.

⁵⁶⁹ Bhishagratna 1907: 80.

the JP (§ 4 [48r4], § 5 [50r1, 51r2], § 9 [56v2], § 11 [58r3], § 12 [60v2], § 18 [64v2], § 19 [65r3], § 20 [66r2], § 22 [67v2], § 24 [69r1], § 27 [73v4], § 29 [74v2], § 32 [77v2], § 34 [79v5], § 35 [80v2], § 48 [92r5], § 49 [93r3], § 63 [100v2], § 68 [102v3], § 69 [103v2], § 71 [103r5], § 72 [104v4], § 73 [104r5]), and once in the PiŚ (§ 64).

kaṇṭakārikā (or *kaṇṭakārī*) has been identified with the *Solanum virginianum* Linn. (family *Solanaceae*), also referred to as *S. xanthocarpum* Schrad. & Wendl. and *S. surattense* Burm.⁵⁷⁰ Commonly called ‘wild eggplant’ in English, its Skt. name (*kaṇṭa-kārikā* ‘the producer of thorns’) seems to confirm the description of a prickly shrub.

This ingredient does not often appear in the Indian medical texts, but occurrences of the word exist in the four canonical collections of Āyurveda, the *Carakasamhitā*, the *Suśrutasamhitā*, and Vāgbhaṭa’s *Aṣṭāṅgahṛdayasamhitā* and *Aṣṭāṅgasamgraha*. The first documented instance of *kaṇṭakārī* is found in the *Sūtrasthāna* 2.22 of the *Carakasamhitā*, in a prescription that alleviates dysuria (painful urination). A variety of therapeutic properties have been attributed to this plant, whose flowers, seeds, and roots are equally employed. Widely known are in particular its beneficial effects against fever, respiratory problems such as asthma, cough, and bronchitis, but also tooth-ache, rheumatism, piles, etc.⁵⁷¹ This drug frequently occurs in combination with other plants as, for instance, in the *kaṇṭakārīghṛta*, a group of ingredients used for the preparation of a ghee that provides relief from *vātika kāsa* (cough due to wind), promotes digestion,⁵⁷² cures *kapha* disorders, and is recommended in case of hiccup and asthma.⁵⁷³

In the Khotanese *Siddhasāra* the word *kaṇḍārya* seems to correspond to different Sanskrit and Tibetan words. It is known from the *Siddhasāra-nighaṇṭu* 10 that Skt. *kaṇṭakārī*, together with *dhāvani* and *kṣudrā*, is one of the synonyms of *nidigdrikā*, a plant name that was probably obscure to the Tibetan and Khotanese translators of Ravigupta’s treatise.⁵⁷⁴

⁵⁷⁰ Another variety (*S. aculeatissimum* Jacq. or *S. capsicoides* All.) used in some parts of Kerala has been identified by Sivarajan and Balachandran 1994: 211-213.

⁵⁷¹ See on the uses and characteristics of *kaṇṭakārī* Nadkarni 1954: 1150-1151 and 1156-1158, Sharma 1996: 71-73, and Sivarajan and Balachandran 1994: 211-213.

⁵⁷² Ca.Ci. 18.35.

⁵⁷³ Ca.Ci. 18.125-129.

⁵⁷⁴ Emmerick 1982: 7.

Accordingly, only in Si 2.6 (Ch 11r1-3; P 92-96) and JP 20 LKh. *kaṇḍārya* is the rendering of Skt. *kaṇṭakārī* and Tib. *kaṇṭa-ka-rī*, which is translated by Emmerick as ‘wild eggplant’. In all the other cases *kaṇḍārya* corresponds to:

Skt. *dhāvani*⁵⁷⁵ : Si 2.11 (11v4), JP 11 (58r2);

Skt. *vyāghrī*, Tib. *bya-ghri* : Si 21.11 (129v3) 26.50 (151r5) 26.79 (155r4), JP 18 (64r4);

Skt. *nidigdrikā* : JP 32 (77r3) 48 (92r5);

Skt. *bṛhatī*, Tib. *bri-ha-tī* : Si 2.1 (10r1) 2.5 (11r2) 26.51 (151r5), JP 5 (50r1) 11 (58r2) 35 (79v5).

While also *vyāghrī* is known to be a synonym of *kaṇṭakārī*, the identification of *bṛhatī* is more intricate. In fact, *bṛhatī* is commonly equated with the *Solanum indicum* Linn.,⁵⁷⁶ or with the *Solanum melongena* Linn. in the Kerala tradition,⁵⁷⁷ two similar prickly plants from the Solanaceae family. However, in the Skt. Si and JP this word occurs often as *bṛhatī-dvaya* or *bṛhatī-yugma* ‘the two *bṛhatīs*’.⁵⁷⁸ More specifically, in Si 2.1 (Ch 9v4-10r2; P 70-74) the dual *bṛhatyau* is translated in Kh. as *vāttāka . brihatta dva : kaṇḍārya* (‘the two *bṛhatī*: *vārtāka* (and) *kaṇṭakārikā*), in Si 2.5 (Ch 10v4-11r1; P 88-92) *bṛhatī-yugma* corresponds to Kh. *kaṇḍārya u vāttāka cikalā* (‘the shrubs *kaṇṭakārī* and *vārtāka*’),⁵⁷⁹ and in the JP 5 (50r1) and 35 (79v5) Skt. *bṛrahattī-dvaya* translates Kh. *bṛrahatta kaṇḍārya* (‘*bṛhatī* (and) *kaṇṭakārī*’). Only in one case (Si 26.51 (Ch 151r4-151v1) *bṛhatī-phalaiḥ*) Skt. *bṛhatī* corresponds without distinction solely to Kh. *kaṇḍārya* and Tib. *bri-ha-tīhi hbras-bu* (‘the fruit of Indian nightshade’).⁵⁸⁰

To conclude, in Khotanese medical texts *kaṇḍārya*, a loanword from *kaṇṭakārikā*, is used indistinctly in the place of different Sanskrit synonyms denoting the *Solanum virginianum* Linn. (or *S. xanthocarpum* Schrad. & Wendl.) such as *kaṇṭakārī*, *nidigdrikā*, *dhāvani*, *vyāghrī*, and *bṛhatī*. The latter occurs in the Sanskrit *Siddhasāra* and *Jīvakaṣṭaka* as *bṛhatī-dvaya* or *bṛhatī-yugma* which is usually identified with the couple *Solanum indicum* Linn. and the *Solanum virginianum* Linn.

⁵⁷⁵ Here Tib. has *dha-da-ki* ‘fulsee flower tree’, possibly from Skt. *dhātakī* (*Grislea tomentosa*, Linn.).

⁵⁷⁶ Nadkarni 1954: 1.1149-1150.

⁵⁷⁷ Sivarajan and Balachandran 1994: 100.

⁵⁷⁸ See also Hoernle 1893-1912: 91 fn. 60 s.v. *vṛhati-dvaya*.

⁵⁷⁹ See also *Dict.* 101.

⁵⁸⁰ Transl. by Emmerick 1982: 375.

§ 66

hūṣya-: I translate the loc. sg. forms of *hūṣa-* in §§ 66 and 67 following Bailey's interpretation, which, based on the Sanskrit correspondent *vanḱṣaṇa* 'groin, thigh-joint'⁵⁸¹ in JP 9 (56v2), suggests deriving this word from 'an older **vaxša-* or reduced grade **uxša* with added initial *h-*'.⁵⁸²

§ 69

ūpadeśā: LKh. *ūpadeśā* is a loanword from Skt. *upadaṃśa* and refers to a kind of venereal disease'.⁵⁸³ For the aetiology, characteristics, and treatment of *upadaṃśa* in Āyurvedic texts see Su.Ni 12.7-9, Su.Ci. 19.25-51, A.h.U. 34.1-7, A.s.U. 39.17, and Si 18.25-30.

⁵⁸¹ MW 911, s.v. *vanḱṣaṇa*.

⁵⁸² Bailey 1960: 31-32.

⁵⁸³ MW 198, s.v. *upadaṃśa*.

8. Eighth chapter: Remedies for sexual dysfunction

This chapter features two remedies for sexual disorders (§§ 75 and 76). While the first directly refers to a female condition, it is unclear if the second one addresses a male or a female patient. A related matter is the interpretation of a Sanskrit loanword, normally used in religious contexts, but here referring to the sexual dysfunction of the patient.

maittrā- ‘love’ (§§ 74, 76)

The first sentence of paragraph 74 begins with the following introductory statement: *khu ni maittrā na paṇame*, that literally translates as ‘when love does not arise below’. Similarly, paragraph 76 closes the prescription declaring that, after drinking the decoction, ‘love will arise below (and) will produce a male child’ (*na maittrā paṇame . dahā pūra padīme*). The interpretation of these clauses presents a certain degree of difficulty due to the occurrence of the word *maittrā* ‘love’ within a medical context. In fact, LKh. *maittrā-* is a loanword from Skt. *maitrī* ‘benevolence, friendliness’,⁵⁸⁴ where its meaning refers to one of the Buddhist virtues. Furthermore, in Indian Āyurvedic texts this word is endowed with religious and moral meaning. For instance, Caraka (*Sūtrasthāna* 8) includes *maitrī* among a long list of correct behaviours and habits that a person should follow to have a proper life (Ca.Sū. 8.29):

brahmacaryaḥjñānadānamaitrīkārūṇyahaṣopekṣāpraśamaparaśca syāditi

One should be devoted to celibacy, knowledge, charity, **friendship**, compassion, cheerfulness, indifference and calmness⁵⁸⁵

Within the same medical context, the author of the *Carakasamhitā* explains that, in order to obtain the honourable degree of *vaidya*, the physician must embrace several virtues, which include *maitrī* and *kārūṇya* (‘compassion’) as an essential part of his relationship with the patient (Ca.Sū. 9.26):

maitrī kārūṇyamārteṣu śakye prītirupekṣaṇam

⁵⁸⁴ MW 834, s.v. *maitrī*. See also Martini 2011 for the ‘great loving kindness’ (Skt. *mahāmaitrī*) in Khotanese texts.

⁵⁸⁵ Transl. by Sharma 2014: 1.61.

prakṛtistheṣu bhūteṣu vaidyavṛttiścaturvidheti

Friendliness and compassion towards the diseased, interest in the amenable and indifference to those who are moving towards end – this is the fourfold attitude of physician⁵⁸⁶

In Khotanese texts as well, the word *maittrā-* occurs many times in Buddhist texts carrying the same religious meaning. Some interesting examples are the various occurrences that can be found in the *Book of Zambasta*, such as fragment M 14.1 r1 *maittra: hama ju ~ biśśā sarva-satva vā[tā]* ‘impartial love towards all beings’⁵⁸⁷ or the whole chapter 3 (from fol. 180 to 192v1),⁵⁸⁸ where the Buddha Śākyamuni explains to Maitreya the importance of ‘love’ to achieve *bodhi* (e.g. 3.25ab *maittre jsa byaude ~ thatau balysūstā kāḍe* ‘through love, *bodhi* is very quickly obtained’).⁵⁸⁹

On the other hand, Khotanese medical texts, with the only exception of PiŚ §§ 74 and 76, do not mention *maittrā-* in any respect. There are, however, two alternative interpretations of this word within a medical context. A first possible explanation may be to translate LKh. *maittrā-* as ‘passion’ with reference to the ‘sexual function’ of a male patient. A parallel use can be found in *The Book of Vimalakīrti*, a Late Khotanese original composition of Mahāyana Buddhism,⁵⁹⁰ where the term *brrīyā-* ‘love, desire’ is used in a game of words to contrast human passion and Buddhist benevolence (Vim 223 [P2026 23-24]):

ṣa’ *brrīyā* cvai ja ni byehe
na ni jsā[24]ve *brrīye* rāśa’
satta *brrīye jsa* hamaṅga
ba’ysūstī naysdakä bvāñä

When **desire** does not get hold of him,
(then) he does not become controlled by **passion**,

⁵⁸⁶ Transl. by Sharma 2014: 1.64.

⁵⁸⁷ Emmerick and Vorob’ëva-Desjatovskaja 1995: 212.

⁵⁸⁸ Emmerick 1968c: 52-77.

⁵⁸⁹ Emmerick 1968c: 56-57.

⁵⁹⁰ See Maggi 2009b: 359-360.

through love beings are (all) equal (for him),
and awakening must be known as close to him⁵⁹¹

As in this occurrence *brrīyaā-* is used in the double sense of sexual passion and loving kindness, in the same way *maittrā-* may have been used in a similar way in the *Piṇḍasāstra*. Hence, the sentence *khu ni maittrā na paṇame* ‘when love does not arise below’ may be referring generically to a sexual dysfunction experienced by the patient. Unfortunately, the Khotanese translation of *Siddhasāra*’s chapter 28, devoted to the preparation of potency therapies (Skt. *vājīkara*),⁵⁹² is not preserved and we cannot directly compare the Khotanese version of some specific passages (e.g. Tib. Si 28.23 ‘one will be able to raise (*ucchrayam avāpnuyāt*) one’s male organ (*dhvaja-*) and (have) sexual intercourse’).⁵⁹³ It should be noted that in general potency therapies in Khotanese texts are often drinks (PiŚ § 76 *khāsā’ñä* ‘it must be drunk’) and it is not uncommon to find ingredients such as ginger (PiŚ § 76 *ttaugarä*) and long pepper (PiŚ § 76 *papala*) in groups of drugs used for restoring male virility (e.g. JP §§ 41 [84r2-85r5], 46 [87v5-88v1], and 48 [92v4-93v1]).⁵⁹⁴

A second explanation is theoretically possible: the sentence *khu ni maittrā na paṇame* ‘when love does not arise below’ can still be interpreted as referring to the sexual dysfunction of the diseased. In this hypothesis, though, the patient is a woman, who is unable to experience *maittrā* and therefore to conceive a child, due to the womb disease as mentioned in § 75 (*pūrāñña āchā*). An argument in favour of this interpretation is, in my opinion, *Siddhasāra* § 29.1. Chapter 29, which has not survived in Khotanese, is devoted to the treatment of infants’ diseases, beginning with the problem of conceiving a child (29.1-14). The Tibetan version of § 29.1 states as follows:

de la bud med ni dga’ bar bya’o ||

⁵⁹¹ Maggi’s unpublished edition and translation.

⁵⁹² See Zysk 2005.

⁵⁹³ Emmerick 1982: 421.

⁵⁹⁴ Differently from the potency therapies described in the *Carakasamhitā* and in the *Suśrutasaṃhitā*, where formulas are meant for ingestion in the form of food (as pills, soups, cakes, or medicated clarified butter) (Zysk 2005: 110-111).

gnas dam pa yin la | bu rin thang med pa bskyed pa yin pas | de'i mo mtshan la nad
byung na dga' ba dang | bu 'byung ba gnyi ga med par 'gyur te | de bas na de gso ba'i
cho ga je bshad par bya'o ||

In that (connection), as for the woman (*yoṣid*), she must be made happy (*rater*). Since it is an excellent (*param*) abode (*dhāma*) and it is the producer (*-sūh*) of the priceless (*anargha-ratna-*) child (*apatya-*), if disease (*-vyāpattayas*) has occurred in her (*tasyāḥ*) female organ (*yoni-*), she will be without (*-vināśanāḥ*) both happiness (*rati-*) and childbirth (*prajā-*). Accordingly, the method of treating that will be expounded.⁵⁹⁵

This opening paragraph explains that, to begin with, the woman ‘must be made happy’ (*dga'-bar bya'o*) in order to conceive a child. If, however, she is affected by a disease of the ‘female organs’ (*mo-mtshan*), she will not be able to experience either happiness or childbirth. Noteworthy is the use, in the Sanskrit original version, of the word *rati* whereas Tibetan has *dga'-ba* (‘happiness, joy’). The Skt. term *rati*, from the verb *ram-*,⁵⁹⁶ is attested with the meaning of ‘pleasure of love, sexual passion or union’,⁵⁹⁷ which recalls the Khotanese *maittrā*-occurring in PiŚ §§ 74 and 76 and Vim 223. Following this hypothesis, once the woman has been treated by the physician and is finally free from diseases, she will be in a condition to experience *maittrā* (or Skt. *rati*) again and, as a consequence, to conceive a child (PiŚ § 76 *na maittrā pṇame . dahā pūra padīme* ‘Love will arise below (and) she will produce a male child’).⁵⁹⁸

It should be noted that in the Āyurvedic literature female conditions are generally treated together with child pathologies. A clear example is the *Kaśyapasaṃhitā*, a compendium

⁵⁹⁵ Ed. and transl. by Emmerick 1982: 422-423.

⁵⁹⁶ Cf. Mayrhofer 1996: 2.436 and for the Ir. verb **Hram* Cheung 2007: 190-191.

⁵⁹⁷ MW 867, s.v. *rati*.

⁵⁹⁸ See also Tib. Si 29.10 ‘As for the method of causing a child to be conceived after thus making (the woman) without defect and disease of the female organ [...] if they have intercourse (*gacchet*), a child will be conceived’ (Emmerick 1982: 425).

from the VII century C.E.⁵⁹⁹ entirely devoted to the treatments of female and infant disorders.⁶⁰⁰ As already mentioned, the *Siddhasāra* itself devotes chapter 29 to women's health issues, conception, and children diseases. Furthermore, I previously highlighted the vigorous properties of ginger and long pepper in men. However, these drugs are employed also for the cure of women. An additional example to the *Jīvakapustaka* passages mentioned above is Si 29.6 where, in the case of womb disease, the patient must drink the powder of long pepper (Skt. *pippali*) mixed with liquor and an other ingredient.

The second female disorder remedy can be found in the prescription for 'diseases of the womb' (*pūrāñña āchā*) of § 75. The adjective *pūrāñña* 'pertaining to the womb' occurs solely in Late Khotanese medical texts and corresponds in the *Siddhasāra* to Skt *yoni*, which refers to the 'female organs of generation'⁶⁰¹ and Tib. *mo mtshan* 'female organs' (in chapter 29) or *mngal* 'uterus, womb' (Si 2.2, 2.7, 2.26). Three different varieties of this disorder are found in the Sanskrit and Tibetan *Siddhasāra*, due to wind (Si 29.2), bile (29.3), and phlegm (29.3). In the *Jīvakapustaka* as well, *pūrāñña* occurs several times, but probably the most interesting passage is the last sentence of § 15 (62v4) *pūrāñña āchā jaida u yāñña vīne khvaṃ jsa āsā yaṃde pūraṃ jsa byehe* : *pūrāṃ vī vasauṣṭa* 'it overcomes diseases in the womb and pains in the yoni; when she resorts to it, she thence gets sons, becomes clean in the womb'.⁶⁰² Regarding the origin of *pūrāñña*, Degener explains the form by deriving it from *pūrāna-* 'Bauch, Mutterleib' and the suffix *-ya-*, which usually causes palatalisation of the preceding consonant or vowel, as in the case of *pūrāñña*.⁶⁰³ This suffix forming adjectives generally denotes affiliation to the original noun and indicates the local position or the origin of it, as for instance in *rrājaa-* 'from the plain' and *gvīha-* 'pertaining to the cow'.⁶⁰⁴

In conclusion, the sentence *khu ni maittrā na paṇame* 'when love does not arise below' may be interpreted as referring to the 'sexual dysfunction' experienced by the patient, with the semantic development of *maittrā-* from 'Buddhist compassion' to 'passion'. There are two

⁵⁹⁹ Meulenbeld 1999-2002: 2A.41.

⁶⁰⁰ See the edition by Tewari 1996.

⁶⁰¹ MW 858, s.v. *yoni*.

⁶⁰² Konow 1941: 29.

⁶⁰³ Degener 1989: 303.

⁶⁰⁴ Degener 1989: 302.

hypotheses about to whom the prescriptions are directed. The first one may refer generically to the sexual dysfunction experienced by a male patient. Accordingly, the drink explained in § 75 would be a potency therapy (cf. Si 28.19-25). The second hypothesis considers ch. 8 as entirely devoted to women disorders. The sentence *khu ni maittrā na paṇame* ‘when love does not arise below’ in § 76 may still be interpreted as referring to the patient’s sexual dysfunction, but to a female one, as suggested by reference to the female ‘disease of the womb’ mentioned in § 75: once she is free from this disorder and through the effect of the prescribed medical drink, ‘love will arise below (and) she will produce a male child’ (*na maittrā paṇame . dahā pūra padīme*).

§ 75

mājṣai- ‘woman’: For the etymology of *mājṣai-* < Ir. **miždušakī-* ‘lady’ see *Studies* 3.123-124, s.v. *mijše*, Sims-Williams 1997 (p. 337), and Maggi 1997 (pp. 43-45).

§ 76

ttaugarä ‘ginger’ (*Zingiber officinale* Rosc.): For LKh. *ttuṅgara-* see Dragoni 2022: 134-136, Emmerick 1985: 313, and *Dict.* 130, s.v. *ttuṅgara-*. The Khotanese word, which OKh. form Dragoni reconstructs as **tv-am-garaa-* or **tv-ām-garaa-*, was borrowed into Tibetan as *dong gra* and Tocharian B *tvāṅkaro*.

9. Ninth chapter: Poullices for piles

This chapter (§ 77-83) concerns the treatment of *arrja-*. This is a Late Khotanese medical term borrowed from Skt. *arśas* ‘haemorrhoids’.⁶⁰⁵ Piles were undoubtedly a common and widespread condition even in the past, for the cure of which many different therapies and solutions were devised. Among the Indian Āyurvedic texts, the most interesting passages on this disorder are found in the *Carakasamhitā* and in Vāgbhaṭa’s *Aṣṭāṅgahṛdayasamhitā* and *Aṣṭāṅgasamgrahasamhitā*. In the *Carakasamhitā*, chapter 14 of the *Cikitsāsthāna* is entirely devoted to the description of the aetiology and treatment of piles, that were considered to be congenital and already present at birth (Skt. *sahaja*) or developed at a later stage (Skt. *uttarakāla*).⁶⁰⁶ Caraka describes *arśas* as ‘disorders characterised by growth like polypus’⁶⁰⁷ (Ca.Ci. 14.5 *arśāṃsītyadhimāṃs avikārāḥ*) located in the ano-rectal folds⁶⁰⁸ and made of fat flesh, and skin (14.6). *Nidānasthāna* 7 of the *Aṣṭāṅgahṛdayasamhitā* (= A.s.Ni. 7), also devoted to haemorrhoids, agrees with Caraka in dividing *arśas* in congenital (Skt. *sahotthāna*) and produced after birth (Skt. *janmottarotthāna*). The first group is, however, considered beyond the power of medicine and hence incurable. The second one is instead subdivided in six additional varieties arising from one, two, or all the three *doṣas* together, and blood (7.9). Furthermore, the author distinguishes between dry (Skt. *śuṣka*) and exudative (Skt. *srāvin*) piles (7.3). The treatment of haemorrhoids through cauterization, surgery, and employment of caustics is described in Vāgbhaṭa’s *Aṣṭāṅgasamgrahasamhitā*, *Cikitsasthāna* 10, which also includes the preparation of medicinal substances to be used after treatments. An extended chapter on piles (chap. 13) is also preserved in the Sanskrit and Tibetan *Siddhasāra*, while only the second half of the Khotanese version has survived (from §13.27 (Ch 101r1) to § 13.51 (Ch 104v2-3)). Here, six kinds of *arśas* (Tib. *gzhang* ‘*brum*) are described, which arise from the three *doṣas*

⁶⁰⁵ MW 93, s.v. *arśas*.

⁶⁰⁶ Ca.Ci. 14.5, Sharma 1998: 2.224.

⁶⁰⁷ Transl. by Sharma 1998: 2.224.

⁶⁰⁸ Caraka discusses the possible broad sense of *arśas*, which is applied by some physicians to those fleshy growths in the male and female genitals, nose, mouth, ear, eyelids, and skin. However, he states that the topic of chapter 14 is restricted to *arśas* arising from the ano-rectal region (Ca.Ci. 14.6), Meulenbeld 1999-2002: 62-63. See also Sharma 1998: 224.

(together or individually), blood, and the congenital ones. Unlike the *Siddhasāra* or the earliest Indian compendia mentioned above, both *Jīvakapustaka* and *Piṇḍasāstra* do not distinguish between different types of piles.

As for the *Piṇḍasāstra*, piles do often appear together with bleeding (e.g. §§ 78, 79, 81). Remedies for the treatment of bleeding piles are provided by Ca.Ci. 14, where they are said to arise when there is a predominance of *kapha* or *vāta* (14.170). Among the prescriptions suggested by Caraka, it is worth noticing that ingredients, such as *ghṛta* ‘oil’, butter, or cow dung, whose properties are considered to be effective in the treatments of haemorrhoids occurs also in chapter 9 of the *Piṇḍasāstra*.

§ 78

pirānaa- ‘worm grains’: An additional symptom occurring together with piles is the presence of intestinal worms (§ 78 *pīrānā*). The Khotanese medical term *pirānaa-*, that I already discussed in detail elsewhere,⁶⁰⁹ is used also in the *Jīvakapustaka* (8.3 (55r1) *pīrānā*) and several times in the *Siddhasāra* (2.24 (C 13v5, P 147-148), 3.26.5 (C 20v2), 19.21 (C 124r2), 19.22 (C 124r2-3), and 19.32 (C 125r4-5)), alongside the more frequent *pira-*, *pāra-*, to render Skt. *krimi-*. Konow interpreted this word as the nom.-acc. pl. of an adjective *pīrāṃnaa-* of the secondary *-aa-* declension (from *pāra-* and the suffix *-āna(a)-*)⁶¹⁰, that he glossed as ‘worm-containing’ and attributed to *āchā-* ‘diseases’ (*uysāna āphāra pīrānā jaida u ysaira vīra bīsā āchā* ‘overcomes respiration troubles, diseases from worms and in the heart’).⁶¹¹ However, the syntax of this sentence suggests that *pīrānā* is an independent substantive or substantivised adjective. This is confirmed by the occurrence in the *Siddhasāra* 2.24 (C 13v5, P 147-148) (*pīrānāṃ hīvī āchai*), where *pīrānāṃ* is a gen.-dat. pl. that modifies the acc. sg. *āchai* ‘disease’. The word is rather a ‘compound of *pāra-* ‘worm’ and *-ānaa-* < **dānaa-* (by regular loss of intervocalic *-d-*) < Ir. **dāna-ka-* ‘grain, seed’ (cf. Middle Persian *dānag*, New Persian *dāne*),⁶¹² hence Kh. *pirānaa-* < **pira-dānaa-* ‘worm grain, seed’, with reference to the eggs of worms

⁶⁰⁹ Luzziatti 2022: 235-239.

⁶¹⁰ Cf. Degener 1989: 83 §10.B.13.

⁶¹¹ See Konow 1941: 20–21 and 94 s.v. *pīra-*, Chen 2005: 297–298.

⁶¹² Cf. Rastorgueva and Edel’man 2003: 448–450 s.vv. **dāna-*, Ḥasandust 2014: vol. 2, 1258–1259 s.v. *dāne*, and Bailey 1979: 156 s.v. *dānā-*.

released during intestinal evacuation of humans'.⁶¹³ A comparison between 'worm eggs' and 'small grains' or 'seeds' is not unusual, as shown for instance by a passage from *Atharvaveda* 2.31, in a ritual against parasites, where 'the officiant identifies himself with Indra and compares the action of mashing the worms with the action of grinding the *khálva*-grains with a millstone (2.31.1)'.⁶¹⁴ In conclusion, two terms related to worms have been identified, *pāra*-, or *pira*- and *pirānaa*-. The first one is often used in eighth-century documents in the specialised sense of 'silkworm', as first pointed out by Duan Qing and afterwards by Skjærvø.⁶¹⁵ It is therefore possible that LKh. *pirānaa*- 'worm grains' was adopted in Khotanese medical texts to avoid misunderstanding.

brrāṃg<āṃ bimḍä hūñ>ä: The supplement in of § 78 *cū brrāṃg<āṃ bimḍä hūñ>ä narāṃe* for ms *cū brrāṃgä narāṃe* is necessary in order to arrive at a more convincing understanding of the passage. After trying to give an acceptable sense to the original reading *cū brrāṃgä narāṃe* 'when the thigh comes out', I reached the conclusion that the verb *narām*- 'to go out'⁶¹⁶ (3 sg. pres. ind.) must refer to something different, possibly to the flowing of blood (LKh. *hūñi*-) originated from the patient's piles. Similar passages are found in Si 13.32 (Ch 101v2) *drrāṃa arja cvai vā hūñä nirāṃe jimḍai* 'it removes such piles as when one's blood comes out' and Si 13.33 (Ch 101v4) *cu drrāṃa arja cvai vā hūñä nirāṃe ṣe' jatte* 'one who has such piles as when his blood comes out will be cured'.⁶¹⁷ Moreover, the syntax seems to require the presence of a locative (**brrāṃgvā*) supported by *narām*-, to express the meaning of the blood that comes out on the thighs. A construction of this verb with a locative is not recorded by Emmerick in the SGS, but occurrences can be found in the texts, as for instance in *Jīvakapustaka* § 25 74r4 *ca eha. [ha*]ysgvā nāṣṭi hūñña narāṃmi* 'when blood comes out (and) down into the mouth and the nostrils' or, in a spell against various afflictions, *hūñna haysguā narāmi* 'blood would come out in [our] nostrils'.⁶¹⁸ These examples are, however, possibly

⁶¹³ Luzziatti 2022: 237.

⁶¹⁴ Luzziatti 2022: 237, cf. also 235, fn. 35.

⁶¹⁵ Duan 1991: 45-50 and Skjærvø, *Studies* 3.91-93.

⁶¹⁶ Cf. SGS 49.

⁶¹⁷ Emmerick's unpublished critical text and translation.

⁶¹⁸ Skjærvø 2007: 388 and 393.

related to what Emmerick calls ‘locative of the source of motion’⁶¹⁹ with reference to the place from which or where something originates. In PiŚ § 78, instead, the blood is flowing on the thighs. In this context it may be more appropriate to integrate the postposition *biṃdä*, meaning ‘on, upon’ and consider *brrāṃgä* as a genitive-dative singular.

brrāṃga-: Regarding the meaning of *brrāṃga-* cf. Si 1.17 (Ch 4v3-4) *cu bāva ṣi’ krrīṃga-rūvya u hala-brāṃgvā pārotta* ‘as for wind, it is based in the anus and in the mid-thighs’.⁶²⁰

§ 79

<hūñā> vīstā: For the supplement of <*hūñā*> in § 79, see also § 81 where the same sentence occurs (*hūñā vīste u arrjä jeṃdä* ‘it will stanch the blood and will remove piles’). Similarly to the previous case (cf. *brrāṃg<ām biṃdä hūñ>ä* above), the supplement seems to be necessary since *vīste* 3 sg. pres. ind. of *višt-* ‘to place; to stanch’⁶²¹ is transitive and requires a direct object.

§ 82

mūla *Asparagus Racemosus* Willd.: Bailey translates *mūla* (§§ 82, 83) and *mūlaṣkiñä* (§ 91), both occurring only in the *Piṇḍasāstra*, as ‘clay’ and ‘lump of clay’ respectively.⁶²² The word *mūla*, however, occurs several times in Khotanese medical texts as a loanword from Skt. *mūla*, which generally refers to ‘a root (of any plant or tree [...])’.⁶²³ Occurrences of groups of *mūla* are found in the *Siddhasāra*, as for instance in Si. 26.61 *deśa-mūla* ‘ten roots’ (Skt. *daśa-mūla*) and Si 2.28 *paṃcä-mūla* ‘five roots’ (Skt. *pañca-mūla*). Alternatively, *mūla* occurs with other ingredients in reference to the part of the plant that has to be employed in the preparation of the medicine (e.g. Si 2.3 (Ch 10r4-10v1; P 79-83) *pipala mūla* ‘root of long pepper’, Skt. *granthika*). The occurrences of *mūla* in the *Piṇḍasāstra* as an independent ingredient are an isolated case in Khotanese. I decided, however, to not follow Bailey’s translation of *mūla* as

⁶¹⁹ Emmerick 1965: 33.

⁶²⁰ Emmerick’s unpublished critical text and translation.

⁶²¹ Cf. SGS 124.

⁶²² *Dict.* 337, s.v. *mūla* and *mūla-ṣkiñä*. The word is appropriately not mentioned in *Studies* 3.126-127 among the different occurrences of a different *mūla*, meaning ‘rat’, ‘testicle’, and ‘muscles’.

⁶²³ MW 826, s.v. *mūla*.

‘clay’ and consider this word as meaning ‘root’ like the other occurrences in the *Siddhasāra*. In fact, Skt. *mūla* can specifically refer to the *Asparagus Racemosus* Willd., also known as Indian asparagus.

§ 81

saṃnā: *saṃna-* is the Late Khotanese form of an Old Khotanese *satanä*, meaning ‘dung’. See *Dict.* 418, s.v. *satanä*

10. Tenth chapter: Poultices for itching

This long chapter (§§ 84-100) offers a very interesting selection of remedies against various diseases, such as skin disorders, irritations, wounds, internal tumours, and even itching deriving from spider bites. In the following, I examine each disease individually, with the aim of shedding light on their identification.

10.1 *ā'sia-* 'itching' (Skt. *kaṇḍū*)

The opening paragraph 84 introduces the topic of the chapter which is said to be devoted to the cure of *ā'sia-* (*tī vā ā'syāṃ va yaugā u peṇḍā* 'the following (are) prescriptions and poultices for *ā'sia-*'). Although this section of the book does not focus exclusively on *ā'sia-*, this condition recurs several times within the tenth chapter. Before taking into account the meaning of *ā'sia-* and its place within the Āyurvedic tradition, it is important to notice that this word has been interpreted by Maggi as a feminine noun *ā'siā-*.⁶²⁴ but a masculine form *ā'sya-* with pl. in *-e*, like the OKh. *kīra-* 'act', pl. *kīre* and *ggara-* 'mountain', pl. *ggare*, is theoretically possible.⁶²⁵

There are no occurrences of this word in the *Jivakapustaka* and *Siddhasāra*. There is, however, an ambiguous term *isyi* in JP 38 (82v1), that Konow describes as 'some kind of tumour, perhaps corresponding to Skt. *piḍaka*, fistula'⁶²⁶ and which occurs together with the same disorders of *Pinḍasāstra*'s chapter 10 (*haśa* 'swelling', *lūta* 'spider bite', and *kuṣṭa* 'skin disease') and *isye* in Si 2.4 (Ch 10v1-4; P 83-88). These occurrences were actually emended by Maggi as **ā'syi*⁶²⁷ in JP 38 and by Emmerick as **ā'sye* in Si 2.4.⁶²⁸ An additional occurrence is found in a passage of ms Or. 11252.1.26 and 11252.1.40⁶²⁹ in a prediction for the life of a man born in the 'year of the sheep', translated by Skjærvø as 'And on him there will be a lot of itching' (l. 26 <...> *biśau jsa biśina suhye hime u hāysai paṃdi ni himye u bedai ā'sye*) and 'And

⁶²⁴ See Maggi 2018: 253.

⁶²⁵ See SGS 265.

⁶²⁶ Konow 1941: 86, s.v. *isyā-*.

⁶²⁷ Maggi 2018: 254.

⁶²⁸ Emmerick's unpublished critical text and translation.

⁶²⁹ *KT* 3.14-15.

a lot of itching will arise for him as well as a wound' (l. 40 *nī bedai vaśūna āchā himāre u ā'sye-t-ī sarbīdi u vranī ka*).⁶³⁰

LKh. *ā'sia-* corresponds to Skt. *kaṇḍū* and Tib. *gyah pa* 'itching'⁶³¹ in Si 2.4 (Ch 10v1-4; P 83-88) and 2.12 (Ch 11v4-5; P 108-111). In Indian Āyurvedic texts, Skt. *kaṇḍū* is a characteristic of eye and ear diseases. Caraka, *Cikitsāsthāna* 26.128, describes the eye disease (*netraroga*)⁶³² due to *kapha* as being characterised by heaviness and itching of the eyes, excessive slimy lacrimation, and white dirt.⁶³³ The idea of *kaṇḍū* as a symptom of skin conditions caused by the aggravation of *kapha* is shared also by Suśruta (Su.U. 20.7-8) and Vāgbhaṭa (A.h.U. 17.12) in the diseases of the ears. In the *Siddhasāra* as well, the disease of the eyes called *abhiṣyanda* (LKh. *abhaiṣaṃnā*), which arises from phlegm, is said to produce white secretions, white and sticky tears, and to cause itching and swelling of the eyes (Si 26.7). It is worth noticing that the *Hārītasamhitā* (ch. 39) includes *kaṇḍū* between the eighteen types of *kuṣṭha* 'skin disease' (39.5-6), differently from other Āyurvedic works. According to Meulenbeld,⁶³⁴ Hārīta's *kaṇḍū* corresponds to Caraka's *alāsaka*-disease (a kind of *kuṣṭha*), which is described as follows in Ca.Ci. 7.23: *kaṇḍūmadbhiḥ sarāgaiśca gaṇḍairalāsakaṃ citam sakaṇḍūrāgapīḍakaṃ dadrumaṇḍalamudgatam* 'that which is covered with itching and red glandular pimples is known as *alāsaka*'.⁶³⁵

Returning to the *Piṇḍasāstra*, the first prescription of the tenth chapter (§ 85) is devoted to the preparation of a medicament against a type of 'skin irritations which slightly rise from an itching and itch strongly' (*ranīkā ttā cu jsiṇā ā'sye sarbīṃdā . u pī'jsa kyihāre*). The itch is probably localised in the eyes and the eyelid joints, since the text refers immediately afterwards to the pain that the patient feels in the eyeballs. The sentence *humari biyasaṃjāre* 'hold the joints

⁶³⁰ Skjærvø 2002: 83-84.

⁶³¹ Cf. *Dict.* 28, s.v. *ā'sī*.

⁶³² MW 569, s.v. *netra-roga*.

⁶³³ Sharma 1998: 2.438

⁶³⁴ Meulenbeld 1999-2002: 2A.54.

⁶³⁵ Transl. by Sharma 1998: 127.

(of the eyes)⁶³⁶ may be referring to the patient's inability to open his eyes due to either a sticky secretion (as in Si 26.6 [Ch 145v1-2] or Ca.Ci. 26.128)⁶³⁷ or to pain.

The other occurrences with *ā'sia-* 'itching' possibly refer to various stages of this symptom. For instance, § 87 describes a 'newly burst itching' (*nuvara narve āsī*), which manifests together with 'pus' (*ysū*), §§ 88 and 95 mention two prescriptions for the ripening of a 'swollen itch' (*stāṃgā āsī*) and a 'stiff itch' (*styūdā āsī*), while § 97 treats an already 'suppurating itching' (*ysvaurgā āsī*). Moreover, §§ 93 and 94 are prescriptions against the itch caused by a spider bite.

10.2 *ranīka* 'skin irritation'

In *Dict.* s.v. *ranīka* Bailey suggests the meaning 'skin-diseases' and considers it 'dyadic with BS *kuṣṭha-* "(all) skin-diseases"⁶³⁸. This statement was proved to be inexact by Emmerick in *Studies* 2.98 (s.v. **pvāṭṭyāṃ*), since he noted that the two diseases appear together in § 100 (*kuṣṭā . āstaṃna rranīkāṃ bidā*. '(it must be smeared) on irritations due to skin disease and so on') not as synonyms but as two different conditions. The word also occurs in JP 44 (86v4) *kauṣṭā u ranīkāṃ bimda pīsalyāñā . pvā ṭṭyāṃ va pīrmāṭṭaṃ* which was translated by Emmerick as '(The oil) must be smeared over skin disease and skin irritation. (When applied) cold, (it is) excellent for those (conditions)'. Furthermore, Degener lists *ranīka* among the derivatives with the *-īka-* suffix and tentatively translates it as "'Hautabschürfung" (?)', by assuming a hypothetical **ranā-*,⁶³⁹ on the basis of Bailey's interpretation 'From "roughened skin", to base *ran-* "to scrape"⁶⁴⁰. LKh. *ranīka* is, in my opinion, a symptom of *kuṣṭa*, the generic medical term used to refer to skin disease (see below).

⁶³⁶ See on LKh. *humari Studies* 1.130.

⁶³⁷ Cf. also Su.U. 11.16-18 on the preparation of a collyrium against itching of the eyes.

⁶³⁸ *Dict.* 357, s.v. *ranīka*. Cf. also *Dict.* 257, s.v. *pvāṭṭyāṃ*.

⁶³⁹ Degener 1989: 128.

⁶⁴⁰ *Dict.* 357, s.v. *ranīka*.

10.3 *kuṣṭha*- 'skin disease' (Skt. *kuṣṭha*)

The research into different varieties of skin diseases, which continue to cause significant morbidity in India even today, has a long-standing history. The literature on this topic is extensive⁶⁴¹ and I will simply outline some of the major features here. A significant analysis and discussion on the subject was carried out by Emmerick in his study on the history of leprosy in India.⁶⁴² As he pointed out, the Sanskrit medical term *kuṣṭha* (LKh. *kuṣṭha-*) is actually a generic term used to refer to cutaneous disorders. To quote his words:⁶⁴³

‘The classical Sanskrit word *kuṣṭha* has been adopted for “leprosy” in Hindi and elsewhere, but it is clear from the ancient descriptions and classifications of *kuṣṭha* that it was used in Āyurvedic medicine to denote “skin disease” in general. Its use to denote leprosy is simply a case of specialization: leprosy was and is the skin disease par excellence’

A number of different varieties of *kuṣṭha* have been listed in the Āyurvedic texts, which seem to agree in their classification of eighteen main types. The disease is caused by the three *doṣas* affecting distinct body elements and its identification is based on cutaneous signs. Regarding the treatments of *kuṣṭha*, Emmerick noted that some of the remedies ‘are likely to have been handed down from the earlier magico-religious period of Indian medical history’, where an interesting example is without any doubt the preparation of a poultice made from oil of belleric myrobalan and ashes of a black snake in Su.Ci 9.17 and used ‘to remove something unnaturally white’ (the cutaneous sign of skin disease) through ‘the magical use of something black’.⁶⁴⁴

Among the therapies suggested in the Āyurvedic treatises, it is worth mentioning the *tuvaraka* oil occurring in the *Suśrutasaṃhitā* (Su.Ci 9 and 13). Its preparation and employment is particularly interesting since it reminds the Khotanese *tīrādāna* oil (*tīrādāṇīnai rūṃ*), which name occurs only in the *Piṇḍasāstra*. The preparation of *tuvaraka* oil, that cures all type of *kuṣṭha*, is described in Su.Ci. 13.20-23. At the end of the chapter (13.35), Suśruta quotes the recipe of a collyrium for eye diseases made from the *majjan* (‘internal pulp of the seeds’) of

⁶⁴¹ Cf. Meulenbeld 1999-2002: 1B.64 and 1B.109.

⁶⁴² Emmerick 1984. See also Das 2000: 56-57.

⁶⁴³ Emmerick 1984: 96.

⁶⁴⁴ Emmerick 1984: 101.

tuvaraka burnt in a closed vessel and mixed with other ingredients, such as the same *tuvaraka* oil, salt and *anjana*. The plant from which the *tuvaraka* oil is made has been identified with the *Hydnocarpus wightianus* Blume,⁶⁴⁵ also known as chaulmoogra and still employed today in the cure of leprosy.⁶⁴⁶

On the other hand, the only mention of the recipe of the Khotanese *ttīrādāna* oil is found in PiŚ 85, in a prescription for the treatment of some kind of eye disease. The word *ttīrādānā* occurs in § 85, together with its adjective *ttīrādāṇṇīnai* (or the variant spelling *ttīrādāṇṇīnai* in § 86) and was interpreted by Bailey generically as ““medicinal plant” [...] from *ttīraa-* and *dānā-* “grain””.⁶⁴⁷ Theoretically, an intervocalic *-d-* is usually lost in Late Khotanese, as for instance in the case mentioned above of LKh. *pirānaa-* < **pira-dānaa-* ‘worm grain’. However, it is possible that the composition process of this word dates back to a different and later phase than *pirānaa-*, which supports Bailey’s interpretation of a compound name of *ttīra-* ‘bitter’ and *dānaa-* ‘grain’, literally meaning ‘the bitter-grain’ plant. Accordingly, *ttīrādāṇṇīnai* is the adjective formed with *ttīra-dānaa-* and the suffix *-īnaa-*, meaning ‘from the bittergrain plant’.⁶⁴⁸ In conclusion, the Sanskrit *tuvaraka* oil and Khotanese *ttīrādāna* oil seems to share not similar medical properties and preparation but also a similar name. In fact, Kh. *ttīra-* is often used in medical texts to translate Skt. *amla* ‘sour, acid’⁶⁴⁹ and, likewise Skt. *tuvara*, or *tubara*, refers to the ‘astringent taste’⁶⁵⁰ of the plant.

10.4 *lūtā-* ‘spider’ (Skt. *lūtā-*)

Paragraphs 93 and 94 deal with the treatments of itching caused by the sting or bite of an animal. LKh. *lūtā-* is a loanword from Skt. *lūtā-*, a spider and the cutaneous disease produced by its bite.⁶⁵¹ As one might expect, spider and snake bites were, and still are, a major problem in some regions of the world. For a long time people from South Asia have sought a way to

⁶⁴⁵ *Hydnocarpus laurifolia* Dennst. in Emmerick 1984: 103.

⁶⁴⁶ See on the properties and the uses of *tuvaraka* Nadkarni 1954: 658-661 and Sharma 1996: 169.

⁶⁴⁷ *Dict.* 129, s.v. *ttīrādānā*.

⁶⁴⁸ Cf. Degener 1989: 143.

⁶⁴⁹ MW 84, s.v. *amla*.

⁶⁵⁰ MW 450, s.v. *tubara*.

⁶⁵¹ MW 905, s.v. *lūtā*. This disease is said to be produced also by snake bites, see also Maggi 2018.

cure them and herbal antidotes or mantras have been found in every medical tradition of India,⁶⁵² and in particular, in Āyurvedic medicine. The mythological origin of *lūtās* spider is mentioned in the *Suśrutasamhitā* and the *Aṣṭāṅgasamgraha*, where they are said to be originated from drops of sweat of Vasiṣṭha furious with Viśvāmitra. From these drops were born innumerable and venomous spiders (Su.Ka. 8.88-93; A.s.U. 44.2).⁶⁵³ Vāgbhaṭa's compendium adds two further stories about the origin of spiders. The first one suggests that *lūtās* arose from sparks of fire of the Asuras killed in the Khāṇḍava forest (44.2). In the second story, *lūtās* are swellings caused by poisonous substances originated from corrupted ingested food (44.4).⁶⁵⁴

Various classifications of *lūtās* and approaches to the treatment of spider poison are then expounded in the main Indian compendia of Āyurveda. In the *Suśrutasamhitā*, for instance, the physician has to firstly examine the bite and understand whether the patient has been stung by a venomous or non-venomous *lūtā*; accordingly, he can then apply an antidote (Su.Ka.8. 75-78).⁶⁵⁵ If not immediately and properly treated, in fact, the effects of the poison will arise slowly, starting from a light itching sensation in the area of the bite on the first day, followed by the onset of swelling on the second day, fever on the third, and so on until the death of the person (8.79-84). Eight kinds of spiders are mentioned in the Su.Ka. 8.94-95 but the conditions caused by them are different from the *Hārītasamhitā*, which also devotes a chapter on the cure of *lūtā*-bites. Chapter 38 of this medical text describes a disease called *lūtā-vraṇa*, an ulcer (Skt. *vraṇa*) with pus inside which small animals (*lūtās*), of which seven kinds are known, are said to live. As a treatment it is recommended to cure the ulcer and kill these animals (38.14-23).⁶⁵⁶

In Khotanese medical texts there are only two occurrences of the word, one in PiŚ 94 and the other in the previously mentioned JP 38 (82v1 *lūtā*). However, chapter 27 of the *Siddhasāra*, devoted to preparation of antidotes, contains two prescriptions that removes 'the

⁶⁵² See Slouber 2012 on the history of snakebites in Gāruḍa medicine.

⁶⁵³ Meulenbeld 1999-2002: 1A.298 and 583-584.

⁶⁵⁴ Meulenbeld 1999-2002: 1A.583.

⁶⁵⁵ Meulenbeld 1999-2002: 1A.298.

⁶⁵⁶ See Meulenbeld 1999-2002: 2A.54. Cf. also Raison 1974.

poison (*viṣa-*) of all poison-mouthed tiny living creatures (*lūtā-*)’ (Si 27.45-46).⁶⁵⁷
Unfortunately, this chapter has not been preserved in Khotanese.

§93

durṣṭi: Regarding the two occurrences of the ppp. of **druṣ-* ‘to bite, sting’ (< Ir. **drau(H)š-*) in §§ 93 (*durṣṭi*) and 94 (*duṣṭi*) cf. Maggi 2018.

§ 85

jastā- ‘eyeball’: On *jastā* § 85 see Emmerick and Róna-Tas 1992b: 217-218. This word is found in the Turkish-Khotanese wordlist preserved in ms P2892 and corresponds to Turkish *yṛttā karākā* ‘pupil of the eye’.⁶⁵⁸

§ 89

stana-vidrradhi ‘mammary abscesses’ (Skt. *stana-vidradhi*): See on the treatment of ‘mammary abscesses’ A.h.Ci. 13.28-29 (= A.s.Ci. 15.11), in a chapter on *vidradhi* (‘abscesses’) and *vṛddhi* (‘enlargement of the scrotum’).

§ 91

āhvarai: According to Bailey and Emmerick LKh. *āhvaraa-* is an adjective formed by the negative prefix *ā-* + *hvarra-* ‘sweet’.⁶⁵⁹ See also Sims-Williams 1983, p. 42.

ñyena: Under the heading *ñe*, Bailey proposes an Iranian etymology suggesting a connection to the verb *nai-* : *ni-* meaning ‘to churn’, with a proposed form **nitā-* or **niyā-* meaning ‘buttermilk’.⁶⁶⁰ The meaning ‘buttermilk’ or ‘curd’ for this word is well-established since, as previously noted by Bailey,⁶⁶¹ it corresponds in the *Siddhasāra* to Skt. *dadhi* and Tib. *zho*, both

⁶⁵⁷ Emmerick 1982: 413.

⁶⁵⁸ See also Bailey 1944.

⁶⁵⁹ *Dict.* 31, s.v. *āhvarai* and SGS 245.

⁶⁶⁰ *Dict.* 119, s.v. *ñe*. See also Bailey 1958: 43.

⁶⁶¹ Bailey 1935: 131.

of which refer to coagulated or thickened sour milk. However, the inflection of this word presents some challenges. Bailey seems to interpret *ñe* as a feminine noun derived from **nitā-* or **niyā-*, presumably based on the several occurrences of IAS *ñye jsa* in the *Siddhasāra*. In his glossary, Konow as well regards this word as a feminine form *ñi-* from *i*-declension.⁶⁶² On the other hand, Emmerick analyses Si IAS *ñye jsa* as a masculine form.⁶⁶³ Indeed, as Emmerick pointed out,⁶⁶⁴ a IAS *jsa* was used interchangeably together with *-na* in Late Khotanese, occasionally in the same text as in PiŚ §§ 91 *ñyena* or 126 *ñena* and § 117 *ñenaḡ jsä*. The table provided below presents all the occurrences of this distinctive word in Late Khotanese medical texts, often preceded by the adjectives *ttīra-* ‘sour’ and *gvīha-* ‘pert. to the cow’:

	PiŚ	Si	JP	PiSa
NS	<i>ñye</i> 125	<i>ñye</i> 1.56 (Ch 9r5), 3.26.7 (Ch 20v4), 25.34 (Ch 144v5) <i>amāstaḡ ñye</i> 3.26.8 (Ch 20v4) <i>ñi</i> 9.14 (var.), 21.12 (var.)	<i>ñi</i> 26 (72v5), 60 (99r2) <i>ttīra ñi</i> 21 (67r2), 31 (76v4) <i>gvī'ha' ñi</i> 16 (63r3), <i>gvī'ha ñi</i> 47 (91r2) <i>ñe</i> 13 (61v2) <i>ttīra ñe</i> 8 (55r1), <i>ttera ñe</i> 14 (62r3) <i>gvī'ha' ñe</i> 12 (60v4)	<i>ttīraḡ ñe</i> 100v5
IAS	<i>ttīra ñyena</i> 91 <i>ttīra ñenaḡ jsä</i> 117 <i>ttīra ñena</i> 126	<i>ñye jsa</i> 1.56 (Ch 9r3), 21.12 (129v4), 25.8 (142v2), 26.14 (146v2-3)		

⁶⁶² Konow 1941, s.v. *ñi-*.

⁶⁶³ SGS 260.

⁶⁶⁴ SGS 260.

Further occurrences of NS have been found in the mss. P 2739 (*ñye KT 2.85*), Or. 11344 (*ñi KT 2.36*), and in the fragmentary ms H. 143 MBD 16 (*ñi KT 5.34*). The presence of multiple singular nominative forms corroborates Emmerick's hypothesis that the term for buttermilk is a masculine noun *-a*, originating from OKh. **niya* with palatalisation of *n-* to *ñ-* caused by the following *-y-*.

§ 92

virana- ‘wound’ (Skt. *vraṇa*) and ***nālā-virā*** ‘tubular wound’ (Skt. *nāḍī-vraṇa*): An in-depth analysis of the characteristics and the treatments of Skt. *vraṇa* is present in all main Indian medical treatises (e.g. Ca.Ci. 25, Su.Sū. 18, Su.Ci. 1 and Ci. 2, A.h.Sū. 39, A.h.U. 25 and U. 26, A.s.U. 29 and U.30, Hā. 35). The *Siddhasāra* as well devotes a chapter (chap. 25) to this important topic. Two varieties of *vraṇa* are identified: one that occurs due to the body itself (e.g. caused by *doṣas*) and is due to the *doṣas* and one that occurs accidentally (e.g. because of weapons). Medications to cure an unripe, ripening, and ripe wounds, to remove pus and serum, to clean the skin, and to restore the flesh are expounded in this chapter.

LKh. *nālā-virā* is a loanword from Skt. *nāḍī-vraṇa*, which literally means ‘tubular wound’. It refers to an injury of ‘any tubular organ (as a vein or artery of the body)’ (Skt. *nāḍī*).⁶⁶⁵ In the Khotanese *Siddhasāra* there are only two occurrences in § 13.49 (Ch 104r4-5) *nālā-vīraṃ jīṃdā* ‘(That) removes tubular wound’ and § 25.29 (Ch 144v1) *nālā-viraṃ hamāte* ‘it should become a tubular wound’.⁶⁶⁶

§ 99

ṣaṃgā: A measure of weight, which together with *śiṃga-*, interestingly, does not occur in the *Siddhasāra*. See also Emmerick 1979a and *Studies* 2.139-140. Cf. other unit of measure in the *Piṇḍaśāstra*: *akṣara-*, *kabā-*, *prūyā-*, *mācāṃgā-*, *śiṃga-*, and *sira-*.

⁶⁶⁵ MW 534, s.v. *nāḍī*.

⁶⁶⁶ Emmerick’s unpublished critical text and translation.

11. Eleventh chapter : Poultrices for rheumatism

The present chapter (§§ 101-115) deals with the treatment of LKh. *vāśārūṃ*. Konow analyses this word as an adaptation from Skt. *vātaśonita* and interprets it as a type of leprosy,⁶⁶⁷ but this is phonologically untenable. The *vāśārūṃ* disorder recurs frequently also in the second section of the Khotanese *Siddhāsara*'s chapter 21 (from Si 21.19 (Ch 131r5-131v2) to 21.39 (Ch 133r4-133v1)), where the word corresponds to Skt. *vātarakta* and *anilarakta*, both translated by Emmerick as 'rheumatism'.

In the *Suśrutasamhitā* (Su.Ci.5) Skt. *vātarakta* and *vātaśonita* are two synonyms used to refer to wind diseases, that initially manifest themselves on the surface of the skin like *kuṣṭha* and slowly enter the tissue of the body (5.3). The origin of *vātarakta* is here explained as caused by the enraged *vāta* which, agitated, enters into the channels carrying blood. Since its passage is obstructed, wind and vitiated blood became mixed together giving rise to the disease called *vātarakta* (5.4). The main symptoms are pain, burning and itching sensation, swelling, weakness in the thighs, and so on.⁶⁶⁸

In the *Cararakasamhitā* (Ca.Ci. 29) two kinds of *vātaśonita* are distinguished, one superficial (Skt. *uttāna*), located in the skin and muscular tissue, and the other (Skt. *gambhīra*) located in the interior (29.19-23). The seats of *vātaśonita* are hands, feet, fingers, and joints. It is said to start from the extremities (hands and feet) and then to spread over the body through blood vessels, until it reaches the joints where it gets stuck, creating intolerable pain (29.12-15).⁶⁶⁹

The most surprising finding to emerge from a comparison of these passages from both *Suśrutasamhitā* and *Cararakasamhitā* and the eleventh chapter of the *Piṇḍasāstra* is the occurrence of the same therapies and ingredients for the treatments of rheumatic disorders. Both Caraka and Suśruta suggest to treat the area affected with pastes, warm poultrices, or massages; ghee, oil, fat, and marrow are of extreme importance for the preparation of medicated oils and plasters, that should be applied warm to the affected area. Recurrent ingredients in the three texts are liquorice plant (Skt. *madhuka*, LKh. *mahābuṃja*-), sida root

⁶⁶⁷ Konow 1941: 100, s.v. *vāśa/ārūṃ*.

⁶⁶⁸ See Meulenbeld 1999-2002: 1A.266.

⁶⁶⁹ See Sharma 1998: 2.487.

(Skt. *balā*, LKh. *sachā-*), sesame (Skt. *tila*, LKh. *kumjsata-*), castor-oil plant (Skt. *eraṇḍa*, LKh. *īraṇḍaa-*), turmeric (Skt. *haridrā*, LKh. *halaidrā-*), hogweed root (Skt. *varṣābhū* LKh. *u'stū bāva*), turpeth (Skt. *trivṛt*, LKh. *traula*), etc. Interesting is the occurrence of the so-called *jīvanīya gaṇa* (lit. 'vivifying group (of drugs)'),⁶⁷⁰ a group of ingredients that in Su.Ci. 5.12 and in Ca.Ci. 29.61-70 is cooked with milk, clarified butter, or honey and is used to anoint the body of the patient. The *jīvaniya* group has a long history in the Āyurvedic tradition. The first mention is found in the *Carakasamhitā*, where the group consists of ten ingredients: *medā*, *mahā-medā*, *kākolī*, *kṣīra-kākolī*, *jīvaka*, *ṛṣabhaka*, *mudga-parṇī*, *māṣa-parṇī*, *jīvantī*, and *madhuka*. In the *Suśrutasamhitā* the group adopts the alternative name of *kākolyādi gaṇa* (lit. 'group of *kākolī* etc. '), occasionally still called *jīvaniya gaṇa* (cf. Su.Ci. 5.12), where eight of the original drugs are employed with other ingredients.⁶⁷¹ The composition of the original *jīvaniya gaṇa* evolved gradually through time, adopting the name *aṣṭavarga* (lit. 'a class of eight principal medicaments')⁶⁷² in the later traditions.⁶⁷³ In the *Piṇḍasāstra* the title *jīvaniya gaṇa* does not occur, but the ten drugs *medā*, *mahā-medā*, *kākolī*, *kṣīra-kākolī*, *jīvaka*, *ṛṣabhaka*, *mudga-parṇī*, *māṣa-parṇī*, *jīvantī*, and *madhuka* appear in § 106 where, after being cooked with milk, cow oil, and beeswax, are supposed to cure rheumatism in the joints.

§ 115

***ā-v-am̐ jsä* 'or with them'**: LKh. *āvaṃjsä* was interpreted by Bailey as an adjective meaning 'compact' occurring only in this text (§ 115). He reads and translates the passage as follows: *jṣā'ñāñä . baysgä samkhalyāñä . āvaṃjsä . peṃḍai padīmā[+]ñä* 'to be boiled, to be smeared thickly, to be made into a compact lump'.⁶⁷⁴ Instead of Bailey's *āvaṃjsä*, I read the phrase *ā-v-am̐ jsä* 'or with them' at the junction between two ways of applying the preparation. The phrase consists of the conjunction *ā* 'or' (OKh. *o*, *au*) and the instr.-abl. of the third plural enclitic pronoun *-(a)m̐ jsä* (OKh. *-n jsa*, *-ṃ jsa*), joined by the Late Khotanese hiatus filler *-v-* regularly found after the back vowel *ā* [ɔ]. The spelling *jsä* for the postposition *jsa* is frequent in the

⁶⁷⁰ See MW 423, s.v. *jīvana* and *jīvanīya*, and 343, s.v. *gaṇa*.

⁶⁷¹ Joshi 1983: 10.

⁶⁷² MW 116, s.v. *aṣṭavarga*.

⁶⁷³ An interesting study on the evolution of the concept of *aṣṭavarga* is provided by Joshi 1983.

⁶⁷⁴ *Dict.* 282, s.v. *āvaṃjsä*.

Piṇḍaśāstra. I therefore translate the clause *ā-v-aṃ jsä . peṇḍai padīmāññä* as ‘or a poultice must be made with them’.⁶⁷⁵

⁶⁷⁵ See also Luzziatti 2022: 239-241.

12. Twelfth chapter: Prescriptions of all and every kind

The last section of the *Piṇḍasāstra* (§§ 116-128) deals with various diseases, such as disturbance of breath, cough, hiccup, diarrhoea, excessive thirst, and so on.

12.1 A preparation against avīysāra (§ 117)

patrūṣa: The first paragraph of this chapter (§ 117) contains several words of unknown origins. Differently from the previous prescriptions, the recipe describes the preparation of an edible medicine, identified by the name *patrūṣa*. Bailey does not consider this word to be a loanword and records it in *Dict.* 207, s.v. *patrūṣa* with the generic meaning ‘edible medicament’, apparently on the basis of the following verb *hverai* ‘must be consumed’ (from *hvar-* ‘to consume, eat’).⁶⁷⁶ A vaguely similar word may be *pattarrā-*, which was previously interpreted by Bailey as ‘food’ and later corrected by Maggi as ‘drink’ (from **pati-tr̥ṣnā-*).⁶⁷⁷

naṣī: Another obscure word in that may refer to some kind of preparation or, alternatively, an ingredient is *naṣī*, also occurring as *naṣīyūṃ jsä* (with the enclitic *-ūṃ jsä*) in § 117. Bailey translates it as ‘a kind of coction’ and explains as ‘possibly from **niš-srita-* > **naṣ-ṣita-* > *naṣī* to base *sar-*, *srai-* “to cook” whence *ṣa-* in *ṣapā* from **ṣrta-pāka-*’.⁶⁷⁸ This is phonologically untenable, however. Rather, *naṣī* may derive from a preverb **niš-* added to the Ir. verb **ṣṣäṣ-* ‘to cling’⁶⁷⁹ with the suffix *-a* forming substantives, hence **ni-ṣṣäṣ-* + *-a* > **niṣṣiṣa-* > **niṣṣī’a-*, with the subscript hook reflecting the loss of intervocalic *-ṣ-*. Occurrences of this verb **ṣṣäṣ-* ‘to cling’ in the 3P pres. ind. are found in the §§ 6 and 8 (*ṣṣaidä*) and § 128 (*ṣaidä*) < OKh. **ṣṣei’ndä*, both with omitted subscript hook. The substantive *naṣī* may, therefore, refer to a dense or viscous preparation.

u na āna hā: A third problem is the interpretation of the sentence *u na āna hā*. Bailey reads *u na-ānahā anarva māśa’kä tcerā* which he translates ‘and it (*paiṇḍaka-*) must be made with

⁶⁷⁶ Cf. SGS 156.

⁶⁷⁷ *Studies* 3.83-84, s.v. *pattarrā-*.

⁶⁷⁸ *Dict.* 176, s.v. *naṣī*. Cf. also Bailey 1954: 130-132.

⁶⁷⁹ SGS 130, Maggi 2019c: 48.

unmoistened unbroken *māśa'kā*-plant'.⁶⁸⁰ He interprets *na-ānahā* as 'possibly a compound (with *na-* for *an-*) to base *naḥ-* (*nap-*, *nabh-*) "be moist" (...) Hence *ā-nah-* "to pour upon"'. A different, simpler interpretation is possible if one divides the words as *u na āna hā* and interprets the sentence *u na āna hā anarva māśa'kā tcerā* as '*māśa'kā* must be put in from below'. In other words, *na* is here an adverb meaning 'below' (Skt. *adhas*) governed with the following postposition *āna* 'from' (literally 'residing'), hence 'from below'. The verb *yan-* (here occurring as the part. nec. *tcerā*) usually means 'to do' but it can be construed with a locative form or a directional particle and acquire the different meaning of 'to put in', as is this case with the particle *hā*.

avīysāra: LKh. *avīysāra-* is a loanword from Skt. *atīsāra*, which refers to the disease of 'diarrhoea'. See also Ca.Ci. 19, Su.U. 40, and A.h.Ni. 8.

12.2 A drink against cough and disturbance of breath (§ 118)

This brief preparation consists of three ingredients, one of which one (LKh. *sperka*) is a loanword from Skt. *spṛkkā*. This plant corresponds to *Trigonella Corniculata* Linn., commonly known in English as fenugreek. The Khotanese word occurs also in the *Jīvakapustaka*, in particular in a prescription that, among different disorders, overcomes cough and respiration troubles (JP 74 (105v2)).

kabā 'a measure': According to Konow, *kabā-* is a loanword from Chinese *kâp*.⁶⁸¹ *kâp* is in fact the reconstructed Late Middle Chinese pronunciation of 合 *gě* and refers to 'decilitre'.⁶⁸² See on the measure of weight in Khotanese medical texts Emmerick 1979a. Cf. other unit of measure in the *Piṇḍasāstra*: *akṣara-*, *prūyā-*, *mācāṃgā-*, *vasīya-*, *śiṃga-*, *ṣaṃga-*, and *sira-*.

12.3 A preparation against paysau (§ 119)

The sentence *paysau pettā jīye utcī narāme* has two possible translations. According to Bailey *paysau* is a hapax 'from **pati-zau-* to *ysū* "pus" and means 'sour, suppurating'.⁶⁸³ Together with

⁶⁸⁰ *Dict.* 18, s.v. *ānahā*; see also *KT* 3.34.

⁶⁸¹ Konow 1941: 87, s.v. *kaba-*.

⁶⁸² Pulleyblank 1991: 106.

⁶⁸³ *Dict.* 214, s.v. *paysau*.

the following word *pettā* ‘bile’ (Skt. *pitta*), the sentence can be translated as ‘sour bile will disappear and liquid will come out of it’. A second interpretation may be to consider *pettā* as a LKh. 3S pres. ind. act. from the verb *pat-* ‘to fall’ (OKh. *pittā*) with the *paysau* disorder as its subject which, however, remains unexplained. Unfortunately, the context is not clear enough to be certain about which interpretation should be preferred. I decided for the second explanation and translate ‘the *paysau* will fall and disappear (and) liquid will come out of it’.

12.4 An emetic drink (§ 120)

This paragraph describes the preparation of a substance that induces strong vomiting. Emetics, sudorifics, or application of oils to the body, were commonly employed in Āyurveda before therapies. The function of these preliminaries was to ‘help to open the channels in the patient's body and to liquefy the *doṣas* which have been causing blockages, enabling them either to flow out of the body through the digestive tract, or to return to their proper locations in the body’.⁶⁸⁴ Caraka, for instance, recommends this as a preventive therapy three times per year (Ca.Sū 7).

Regarding PiŚ § 120, the only unclear passage is due to the word *kalamakyä* in the sentence *u dva drrai jūna tta tta ysūnāññä . khū va hera vī kalamakyä na hatsīṃdä* ‘these must be strained two or three times so that no *kalamakyä* pass through at all there’. Degener suggests to consider this hapax a loanword from Skt. *kalama-* ‘Reissorte’⁶⁸⁵ with the suffix *-ka*, and meaning ‘Klumpchen, Körnchen’.⁶⁸⁶ It seems possible that *kalamakyä* may refer to the small seeds from the bitter bottle-gourd (LKh *ttīrā ahaudä*), melon (LKh. *byārä*), and acute-angled cucumber (*jilābhaṃgä*), listed in the prescription.

vasī: LKh. *vasīya* is a measure of weight, see also Emmerick 1979a. Cf. other unit of measure in the *Piṇḍasāstra*: *akṣara-*, *kabā-*, *prūyā-*, *mācāṃgā-*, *śiṃga-*, *ṣaṃga-*, and *sira-*.

⁶⁸⁴ Wujastyk 2003: xx.

⁶⁸⁵ Cf. also MW 260, s.v. *kalama* and Si 3.2 (Ch 15v3-4) *cu kalama-śālā rrīysu* ‘As for *kalama-śālī* rice’ (Emmerick’s unpublished edition and translation).

⁶⁸⁶ Degener 1989: 187.

12.5 A poultice of many virtues (§ 128)

This last paragraph contains description of a poultice for healing red swelling, wind in the blood, bodily pains, and pains in the eye. Despite the slight damages in the manuscript, the text can still be read with good continuity.

bu'jsai: Bailey interpreted the words *ttai vā bu'jsai haijā haśā jidā* as meaning 'so for him it cures the fiery red swelling'. He translated *bu'jsai* as 'fiery' on the assumption that this is an adjective derived from the word *bu'jsa* 'flames'. He read this term in stanza 129 of the Late Khotanese *Jātakastava* (with Mark J. Dresden)⁶⁸⁷ and that, on account of the usual Late Khotanese interchange of *u* and *ā*,⁶⁸⁸ he connected with the OKh. derivative *bāljsakyau* in N 169.4 that he likewise translated 'with flames'.⁶⁸⁹ However, Emmerick subsequently suggested that *bu'jsa* in *Jātakastava* 129 is really a variant spelling for OKh. *bāljsa* and that this and its derivative *bāljsakyau* do not mean 'flames' but rather 'down feathers'.⁶⁹⁰ Giotto Canevascini further showed convincingly, on the basis of the occurrence of *bāljsa* in the *Sanḅhāṭasūtra*, that the word simply means 'wings'.⁶⁹¹ Accordingly, Bailey's *bu'jsai* 'fiery' in the *Piṇḁasāstra* is left without a starting point and remains an isolated hapax.

Actually, *bu'jsai* must be the regular Late Khotanese outcome of the OKh. nom.-acc. pl. *buljsa* from *buljsā-* 'virtue' with *-l- > -'* (cf. OKh. *balysa-* 'Buddha' > LKh. *ba'ysa-*, the apostrophe transliterating the subscript hook of the Khotanese Brāhmī script, possibly expressing breathiness).⁶⁹² The substantive is preceded by *ttai* < OKh. *tte* nom.-acc. pl. f. 'these' + third singular enclitic pronoun *-ī* 'its' (rather than Bailey's *ttai* 'so for him' < *tta* + *-ī*) and refers to 'the virtues' of the poultice, that is, to its curative properties expounded next. Moreover, I read the two independent sentences *ttai vā bu'jsai* 'and these are its virtues' with implied copula and *haijā haśā jidā* 'it removes red swelling' instead of Bailey's single sentence. The interpretation of *bu'jsai* with the specific meaning of 'curative properties' is corroborated

⁶⁸⁷ *Dict.* 295 s.v. *bu'jsai*; cf. *Dict.* 295 s.v. *bu'jsa* 'flames' and Dresden 1955: 439, 461 and 482 s.v. *bu'jsa-* 'flashing, light, flame'.

⁶⁸⁸ See Dresden 1955: 406

⁶⁸⁹ *Dict.* 279 s.v. *bāljsakyau*.

⁶⁹⁰ See Emmerick 1985: 39-53 and *Studies* 2.27 s.v. **āstīye* and 107 s.v. *bāljsakyau*.

⁶⁹¹ See Canevascini 1993: 154 and Emmerick, *Studies* 3.114 s.v. *bāljsaka-*.

⁶⁹² See Emmerick 1992a: 158-165 on the subscript hook.

by the occurrence of the same clause in a slightly different spelling in PiŚ § 8 *tti vā bve'jse* 'and these are its virtues', where it was likewise translated by Emmerick.

Summing up, the prescription lists the ingredients, gives directions for their use in the poultice preparation, and finally enumerates the virtues and applications of the poultice, the first one being its curative property against red swelling.

INDEXES

The following indexes offer an alphabetical compilation of ingredients, names of diseases and body parts, and verbs that refer to the preparation of the medicaments, along with their corresponding Sanskrit equivalents. These indexes are mainly based on the comparison with the *Siddhasāra* and *Jīvakaṣṭaka*. Additionally, I offer a concise index of botanical names for the most familiar plants referenced in the *Piṇḍasāstra*, omitting entries with ambiguous meanings. To ensure accuracy, botanical names have been validated with assistance from the *International Plant Names Index* and the *Medicinal Plant Names Service* (Kew Gardens).⁶⁹³

The words of the Skt-Kh. Kh. Skt. indexes are organized in the following alphabetical order: *a ā ä/i/ī u/ū e/ai o/au k kh g c j ñ ṭ ṭh ḍ ṇ tt/t th d n p ph b m y r/r l v ś ṣ/ṣṣ s h*.

Khotanese – Sanskrit

A

akṣara- *akṣa*

aṃguṣṭa- *hīngu*

arrja- *arśas*

aviṣṭī'naa- *abhiṣuka*

avīysāra- *atīsāra*

aśvagamdhā- *aśvagandhā*

aṣṇūha *kapota viṣ*

Ā

āchaa- *gada, roga*; 'wind disease' *māruta-roga, anila gada*

āḍa- *saktu*

āphir- *duṣṭā*

⁶⁹³ <https://www.ipni.org/> (last accessed 31/01/2023) and <https://mpns.science.kew.org/> (last accessed 21/08/2023). See also <https://www.sanskrit-lexicon.uni-koeln.de/scans/SNPScan/2020/web/webtc/indexcaller.php>. I employed the works of Sharma 1996 and Sivarajan and Balachandran 1994 for the identification of botanical elements.

āma- *āma*

āra *vacā*

āstaa- *asthi*

ā'sia- *kaṇḍū*

āha- *āsya, vadana*

āhā- *aṇḍa*

***āhusāñ-** *presveda, sveda, svedana, svinna*

āhvarai *āraṇala, amla-kāñjika*

I/Ī

īraṃdaa- *eraṇḍa*

U/Ū

utcā- *ambu, jala, vāri*

ūpadeśa *upadaṃśa*

uysana- *śvāsa*

ulīña- *auṣtra*

ura- *udara*

u'stā *punarnavā, varṣābhū, vṛścīva*

O/AU

aumalaa- *āmalaka, āmalakī, dhātrī*

K

kaṇḍārya *kaṇṭakārikā, bṛhatī, vyāghrī*

kapāysa- *karpāsa*

kapūra *karpūra*

kamala- *mūrdhān*

kaṣā'a- *kaṣāya, kvātha, sva-rasa*

kasaa- *jvara*

kākauṭā- *kākolī*

kām̐jia- *kānjika, *sauvīra*

kāla- *kāla*

kuṃjsata- *tila*

kum̐jsavīnaa- rūna- taila

kum̐jsārgyā- piṇyāka

kumbā atasī

kūṭ- kuṭṭ

kurkāma- kuṅkuma

kuṣṭa- kuṣṭha ('costus')

kuṣṭa- kuṣṭha ('skin disease')

krrim̐ga-rūvai guda

kṣāra- kṣāra

kṣīra-kākauṭā- kṣīra-kākolī, kākolī-dvaya

KH

khaśa' pāna

khāysa- anna

khāysāna- āmāśaya

G

ganama- godhūma

gichana- moca

ggūnaa- rūpa, lakṣana

gūra- drāksā, mṛdvikā

gurgula pura, gulgulu

gula- guḍa, phāṇita

gau'mā- gulma

gau'sā priyaṅgu

grrāma- uṣṇa

grāmaka- uṣṇa

grūṣka- tvac

C/KY

candana- rakta-candana

cirutta- siktha

caittra- agni, citraka, vahni

J/GY

jah- : **jasta-** *sidh, sukhī bhū*

j(am)b(a)()drre *jambūtrayaṃ*

jin- (°)*śudh, (°)han, hṛ*

jināka- (°)*śudh, (°)han, hṛ*

jīy- : **jīta-** *ghna, nud, prakṣīṇa*

jilabhamgā *jālīni-phala*

jīvaka- *jīvaka*

jīvatti- *jīvanī*

jsahāra- *grahaṇī*

Ñ

ñe *dadhi*

ñūṣṭ- *ābaddha*

T/TT

ttani- *chavi*

ttara- *tarṣa, tṛṣṇā*

ttāgara- *vakra*

ttīra- *amla, tikta, śukta*

ttirṣcya *parpaṭī*

ttuṃgara- *ādraka, nāgara, viśvā, śuṅṭhī*

tturra- *vaktra*

ttauda- *uṣṇa, dāha*

tcāra- *vasā*

tcārba- *snigdha*

tcīña- *kiṇva*

tciman- *akṣi*

ttrahā- *mūlaka*

ttriphalā- *triphalā*

ttraikṣa- *tīkṣṇa*

traula *trivṛtā*

tharka- *akṣoṭa*

D

daśāṃga- *daśāṅga*

dasau *daśa*

dāa- *agni, anala, jyotis; dīpana, vahni*

dātta- *dantī, nikumbha*

dūvara- *udara*

dūṣa- *doṣa*

devadāra- *dāru, devakāṣṭha, devadāru*

drāṃma- *dāḍīma*

N

na *adhas*

namvā- *lavaṇa*

namvīnaa- *lavaṇa*

naraiya *vṛddhi, JP vardhma*

nāṣṭā *viṣṭambhin*

nāhā- *nābhi*

nīyaka- *navanīta*

nīysva *masūra*

nīra- *nīra*

P

paṃjalau *kāṃsa*

pajs- : paha- *pac, śṛta, svinna*

paṃjsa *pañca*

papala *kaṇā, kṛṣṇā, pippali, māgadhi*

paṣkāsaā- *ādhmāna, āhāna*

paher- *bhāvita*

pāa- *pāda*

pā'sa- *vārāha*

pī *medas*

piṇḍaa- *piṇḍaka*

pirānaa- *krimi*

punarṇavā- *punarnava*

puṣṭara- *padmaka*

petta- *pitta*

pe'sā'ra- *nākta, nīsā-mukha, sāyāhna*

ṛyaṃgā *priyaṅgu, śyāmā*

PH

phāhā'- *kāsa*

phiysgāna- *vasti*

bañ- : *basta- bandh*

B

bam- *ullekhana, chardana, chardī*

baysga- *bahala*

bara śīmṃjā- *badarī*

balāttaka- *bhallāttaka*

bāga- *bhāga*

bājana- *pātra*

bā ttīman- *śatapuṣpā*

bāti- *vāta*

bāvā- *mūla*

bīysman- *mūtra*

bua'- *purā*

būysiñña- *chāga*

būhana *musta*

byāra- *ervāruka*

M

makauṭa- *mukula*

makṣ- *mraṣ*

maṃgāra- *purāṇa*

mahābuṃja- *madhuka, yaṣṭimadhu*

mahā-midā- *mahā-medā*

mākṣia- *mākṣika*

māśa'kā *śārṅgaṣṭā*

māṣa-parṇi *māṣa-parṇī*

māsta- *takra*

mijsā- *majjan*

mijsāka- *asthi, bīja, majjan*

midā- *medā*

mūdga-parṇi- *mudga-parṇī*

mau- *mada*

mauga- *maudga*

Y

yamai *yamaka*

yauga- *yoga*

yausā- *kastūrī*

ysamṅara- *pravayas*

ysambasta- *laśuna*

ysaramṅja- *kurumbha*

ysāluā- *dārvī, pīta-dāru*

ysīḍaa- *pīta*

ysua- *pāka*

ysai *pūrvāhṇa, prātar*

R/RR

raysa- *rasa*

raṣabhaka- *ṛṣabhaka*

rrājaa- *romaka*

rīysū *taṇḍula, śāli*

rīśā' *rocana, ruciprada*

rūna- *ghṛta*

rrūnai *mañjiṣṭhā*

rūsāḍa- *yava-kalka*

raijsaa- *tīkṣṇa*

raustara *arka*

L

laṃgara- *rāsnā*

lavamga- *lavaṅga*

lākṣa *lākṣā*

lūttā- *lūtā*

V

vaṇḍamgā *viḍaṅgā*

valaka- *kaniṣṭha*

vaṣṭ- : *vistāta- sthā*

vasta- *vastī*

vātta-pitta- *vāta-pitta*

vāttaṣṭhīla- *vātāṣṭhīlā*

vāmīnaa- *vātāma*

vāsarūṃ *vāta-rakta, anila-rakta*

vīnā- *ruj, śūla*

vimath- *vimath*

virana- *vraṇa*

vihīlaa- *vibhītaka, vibhītakī, akṣa*

Ś/ŚŚ

śaśvāna- (*śveta-*)*sarṣapa, siddhārtha.*

śāva- *tāmra, śulva*

śikarā- *śarkarā*

śimga- *prastha*

śīmḡā- *kola, bādara*

śīya- *pāṇḍu, śukla, sita*

śīlājattā *śīlājatu*

śīlīṣuma- *śleṣman*

Ṣ/ṢṢ

ṣala- *śaṭī*

ṣūa- *viṣāṇa*

ṣvīda- *kṣīra*

sachā- *balā*
sadalūna- *saindhava*
saṃdvāta- *saṃnipāta*
saṃna- *viṭka, viṣ, śakṛt*
saṃbhāra *saṃbhāra*
salīcā *satīna*
sāḍa- *śīta*
sumam *mālatī*
sutta- *śukta*
sauthara spyaka- *dhātakī*
stana-vidrradhi- *stana-vidradhi*
styūda- *kaṭhina*
strīs- : strīya- *stambh*
spajūṃ *sauvarcala*
sparkā- *sprkkā*
spyaa- *puṣpa*
svaṃna-gīraa- *kāñcana-gairika*
svāmilau *aṃsa*

H

hacāna- *kāśa*
haṃga *amlavetasa*
haṃbrrīh- *yu, saṃyuj*
hamaṃga *tulya, sama*
hamara- *saṃdhi*
haysgā- *nāvana*
haryāsa- *asita, kṛṣṇa*
halīraa- *harītakī, pathya, abhaya*
halaidrā- *niśā, haridrā*
haśa- *śopha*
hāma- *āma*
hāmaa- *kaṇikā*

hīnaā- *surasā*
hīysamau *dhānyāka*
hūñi- *asra, rakta, śoṇita*
hūraṣṭā *pauṣkara*
hūṣa *vankṣaṇa*
huṣka- *śuṣka*
haikā- *hikkā*
(hena-), hemjā- *aruṇa, rakta*
hva'nd- *nara*
hvar- : *hvaḍa- ad, līḍha, lih*
hvā'ñ- *viśoṣaṇa*

Sanskrit – Khotanese

A

akṣa *akṣara-*
akṣa *vihīlaa-*
akṣi *tciman-*
akṣoṭa *tharka-*
agni *caittra-*
agni *dāa-*
atasī *kumbā*
atīsāra *avīysāra-*
adhas *na*
abhaya *halīraa-*
abhiṣuka *aviṣgī'naa-*
aṇḍa *āhā-*
anala *dāa-*
anila-rakta *vāśarūṃ*
anna *khāysa-*
ambu *utcā*

ambhas *utcā-*

amla *tīra-*

amla-kāñjika *āhvarai*

amlavetasa *haṅga*

aṃsa *svāmilau*

aruṇa (*hena-*), *hemjā-*

arka *raustara*

arśas *arrja-*

aśvagandhā *aśvagaṃdhā-*

asita *haryāsa*

asthi *āstaa-*

asthi *mijsāka-*

Ā

ājya *gvīha'- rūna-*

ādhmāna *paṣkāsaā-*

ābaddha *ñūṣṭ-*

āma *āma* ‘undigested’

āma *hāma-* ‘raw’

āmalaka *aumalaa-*

āmalakī *aumalaa-*

āmāśaya *khāysāna-*

āraṇala *āhvarai*

ārdraka *tuṃgara-*

āsya *āha*

āhāna *paṣkāsaā-*

U/Ū

ūdaka *utcā-*

udara *dūvara-* (‘dropsy’)

udara *ura-* (‘belly’)

unmath *jīn-, jīnāka-*

upadaṃśa *ūpadeśa*

ullekhana *bam-*

uṣṇa *grrāma-*

uṣṇa *grāmaka-*

uṣṇa *ttauda-*

E/AI

eraṇḍa *īraṇḍaa-*

ervāruka *byāra-*

O/AU

auṣṭra *ulīṅa-*

K

kaṇā *papala*

kaṇikā *hāmaa-*

kaṇṭakārikā *kaṇḍārya*

kaṇḍū *ā'sia-*

kaniṣṭha *valaka-*

kaṭabhī-śvetā *śīya- bua'-*

kaṭhina *styūda-*

kapota viṣ *aṣṇūha*

karpāsa *kapāysa-*

karpūra *kapūra*

kāśa *hacāna-*

kaṣāya *kaṣā'a-*

kāsa *phāhā'-*

kastūrī *yausā-*

kākolī *kākauṭā-*

kāñcana-gairika *svaṃna-gīraa-*

kānjika *kāṃjia-*

kāla *kāla-*

kāṃsa *paṃjalau*

kāsa *phāhā'-*

kiṇva *tcīṇa-*
kuṭṭ *kūt-*
kuṅkuma *kurkāma-*
kunda *sīya- bua'-*
kurumbha JP *ysaramjsa-*
kuṣṭha *kuṣṭha-* ('costus')
kuṣṭha *kuṣṭha-* ('skin disease')
kola *bara sīṃjā-*
kṣāra *kṣāra-*
kṣīra *ṣvīda-*
kṣīra-kākolī *kṣīra-kākauṭā-*
krimi *pirānaa-*
kṛṣṇa *haryāsa*
kṛṣṇā *papala*

G

gada *āchaa-*
guḍa *gula-*
guda *kriṅga-rūvai*
gulgulu *gurgula*
gulma *gauṃā-*
go-mūtra *gvīha'- bīysman-*
godhūma *ganama-*
grahaṇī *jsahāra-*
ghna *jīy- : jīta-*
ghṛta *gvīha'- rūna-*

C/CH

citraka *caittra-*
chardana *bam-*
chardī *bam-*
chavi *ttani-*
chāga *būysīṇa-*

J

jala *utcā-*

jambūtrayaṃ *j(aṃ)b(a)()drre*

jālini-phala *jilabhaṃgā*

ji *jin-, jināka-*

jīvaka *jīvaka-*

jīvatti *jīvantī-*

jyotis *dāa-*

jvara *kasaa-*

T

takra *māsta-*

tarṣa *ttara-*

tāmra *śāva-*

tikta *ttīra-*

tīkṣṇa *ttraikṣa-*

tīkṣṇa *raijsaa-*

tila *kunjsata-*

tulya *hamaṃga*

taila *kunjsavīnaa- rūna-*

toya *utcā-*

triphala *ttriphalā-*

trivṛtā *traula*

tṛṣṇā *ttara-*

tvac *grūṣka-*

D/DH

dakṣa *krreṃgīna-*

dadhi *ñe*

daśa *dasau*

daśāṅga *daśāṃga-*

dantī *dātta-*

dāḍīma *drāṅma-*
dāru *devadāra-*
dārvī *ysāluā-*
dāha *ttauda-*
dīpana *dāa-*
duṣṭa *āphir-*
devakāṣṭha *devadāra-*
devadāru *devadāra-*
doṣa *dūṣa-*
drākṣā *gūra-*
dhvaṃs *jin-, jināka-*
dhātakī *sauthara spyaka-*
dhātrī *aumalaa-*

N

(°)**naś** *jin-, jināka-*
nākta *pe'sā'ra-*
nāgara *ttuṅgara-*
nābhi *nāhā-*
nāvana *haysgā-*
navanīta *nīyaka-*
nikumbha *dātta-*
nīra *nīra-*
nivṛ *jin-, jināka-*
nīśā-mukha *pe'sā'ra-*
nud *jin-, jināka-, jīy-*
netra *tciman-*

P/PH

pac *pajs-*
pathya *halīraa-*
padmaka *puṣṭara-*

parpaṭī *ttirṣcyā*
pāka *ysua-*
pātra *bājana-*
pāda *pāa-*
pañca *paṃjsa*
pāṇḍu *sīya-*
pāna *khaśa'*
piṇḍaka *piṇḍaa-*
piṇyāka *kuṃjsārgyā-*
pīta *ysīḍaa-*
pīta-dāru *ysāluā-*
pitta *petta-*
pippali *papala*
punarnava *punarnavā*
pura *gurgula*
purā *bua'-*
pūrāña- *yoni*
purāṇa *maṅgāra-*
pūrvāhṇa *ysai*
puṣpa *spyaa-*
pauṣkara *hūraṣṭi*
prakṣīṇa *jīy- : jīta-*
pravayas *ysaṅgara-*
prastha *śiṅga-*
prātar *ysai*
priyaṅgu *gau'sā*
priyaṅgu *pryaṅgā*
presveda **āhusāñ-*
phāṇita *gula-*
B/BH
badara *bara sīṃjā-*

bandh *bañ-*
bahala *baysga-*
balā *sacha*
bīja *mijsāka-*
bṛhatī *kaṇḍārya*
bhallāttaka *balāttaka-*
bhāga *bāga-*
bhāvita *paher-*

M

majjan *mijsā-, mijsāka-*
mada *mau-*
madhuka *mahābuṇja-*
mañjiṣṭhā *rrūnai*
masūra *nīysva*
mahā-medā *mahā-midā-*
mākṣika *mākṣia-*
māgadhī *papala*
mālatī *sumaṇ*
māṣa-parṇī *māṣa-parṇi*
mukula *makauṭa-*
mudga-parṇī *mudga-parṇi*
mūla *bāvā-*
mūlaka *ttrahā-*
mūtra *bīysman-*
mūrdhan *kamala-*
musta *būhana*
medas *pī*
medā *midā*
moca *gichana-*
maudga *māṅga-*
mrakṣ *makṣ-*

mṛdvīkā *gūra-*

Y

yamaka *yamai*

yava-kalka *rūsāḍa-*

yu *haṃbrrih-*

yoga *yauga-*

yoni *pūrāñā-*

R

rakta (*hena-*), *heṃjā-*

rakta-candana *rakta-candana-*

rasa *raysa-*

rāsnā *laṃgara-*

ruj *vīnā-*

ruciprada *rīśā'*

rūpa *ggūnaa-*

roga *āchaa-*

rocana *rīśā'*

romaka *rrājaa-*

ṛṣabhaka *raṣabhaka-*

L

lakṣana *ggūnaa-*

lavaṇa *namvā-*, *namvīnaa-*

lavaṅga *lavaṅga-*

laśuna *ysambasta-*

lākṣā *lākṣa*

lūtā *lūtā*

locana *tciman-*

V

vaktra *tturra-*

vakra *ttāgara-*

vacā *āra*

vadana āha-
varṣābhū u'śtā
vasā tcāra-
vasti phiysgāna-
vasti vasta-
vahni caittra-
vahni dāa-
vāta bāti-
vāta-pitta vātta-pitta
vāta-rakta vāśarūṃ
vātāma vāmīnaa-
vātāṣṭhīlā vāttāṣṭhīla-
vārāha pā'sa-
vāri utcā-
viṭka saṃna-
viḍaṅgā vaṇḍaṅgā
vibhītaka vihīlaa-
vibhītakī vihīlaa-
vimath vimath-
viśvā ttuṅgara-
viṣ saṃna-
viṣāṇa ṣūa-
viṣṭambhin nāṣṭā
vedanā vīnā-
vyāghrī kaṇḍārya
vraṇa virana-
vṛścīva u'śtā
Ś
śakṛt saṃna-
śaṭi ṣala-
śatapuṣpā bā ttīman-

śam jin-, jināka-
śarkarā śīkarā-
śārṅgaṣṭā māśa'kā
śāli rīysū
śīta sāḍa-
śīro-'rti kamala- rāha-'
śīlājatu śīlājattā
śukta ttīra-
śukta sutta-
śukla śīya-
(°)śudh- jin-, jināka-
śunṭhī ttuṅgara-
śūla vīnā-
śulva- śāva-
śuṣka huṣka-
śuṣka-mūlaka huṣka- ttrahā-
śopha haśa-
śyāmā pṛyaṅgā
śṛta paṅs-
śleṣman śīlīṣuma-
śleṣman ślīṣma-
śvāsa uysana-
śveta-sarṣapa śīya- śaśvāna-

S

saktu āḍa-
satīna salīcā
saṃbhāra saṃbhāra-
saṃdhi hamara-
saṃnipāta saṃdvāta-
sama hamaṅga
saṃyuj haṃbrīh-

sarpis *gvīha'*- *rūna-*
sarṣapa *śaśvāna-*
sāyāhna *pe'sā'ra-*
siktha *cirutta-*
sita *śīya-*
sidh *jah-*
siddhārtha *śaśvāna-*
sukhī bhū *jah-*
surasā *hīnā-*
saindhava *sadalūna-*
sauvarcala *spajūṃ*
***sauvīra** *kāmjia-*
stana-vidradhi *stana-vidrradhi*
stambh *strīs-* : *strīya-*
sthā *vaṣṭ-* : *vistāta-*
snigdha *tcārba-*
spṛkkā *sparkā-*
svinna **āhusāñ-, pajs-*
sveda **āhusāñ-*
sveda **āhusāñ-*
H
hṛ *jin-, jināka-*
(°)han *jin-, jināka*
harītakī *halīraa-*
hiṅgu *aṅguṣṭa-*

Disease names (Eng.-LKh.-Skt)

Ache *khaiyā-*

Combination (of all three *doṣas*) *saṃdvāta-* ; *saṃnipāta-*

Cough *phāhā'-* ; *kāsa*

Cutaneous disease due to spider bite *lūttā-* ; *lūtā*

Diarrhoea *avīysāra-* ; *atīsāra*

Disease of the womb *pūrāṇa- āchaa-*; *yoni-doṣa*, *yoni-śūla*, *yoni-vyāpatti*

Dropsy *dūvara-* ; *udara*

Dust (inside the eyes) *phāna-*

Fester, ulcer *haṃbva'-*

Fever *kasaa-*, *parigraha* (uncertain); *jvara*

Headache *kamala- rāha* ; *śiro-ṛti*

Hiccough *haikā-* ; *hikkā*

Internal tumour *gauṃā-* ; *gulma*

Itching *ā'sia-* ; *kaṇḍū*

Joint *hamara-* ; *saṃdhi*

Kidney (adj.) *bi'gaji*

Mammary abscesses *stana-vidrradhi-* ; *stana-vidradhi*

Pain *rāha-*

Pain *vīnā-* ; *ruj*, *śūla*

Piles *arrja-* ; *arśas*

Pus *ysua-* ; *pāka*

Pus *ysūrga*

Rheumatism *vāśarūṃ* ; *vāta-rakta*, *anila-rakta*

Scrotal enlargement *naraiya* ; *vṛddhi*, JP *vardhma*

Skin disease *kuṣṭa-* ; *kuṣṭha*

Skin disease *ranīka-*

Suppurating (adj.) *ysvaurga-*

Swelling (of the stomach due to constipation) *paṣkāsaā-* ; *ādhmāna*, *āhāna*

Swelling *hasā-*, *hasvā-* ; *śopha*
Swelling *hasvā-*
Swollen (adj.) *stānga-*
Thirst *ttara-* ; *tarṣa*, *tr̥ṣṇā*
Tubular wound *nālā-virā* ; *nāḍī-vraṇa*
Venereal disease *ūpadeśa* ; *upadaṃśa*
Vomit (vb.) *bam-* ; *ullekhana*, *chardana*, *chardī*
Wind disease ...; *māruta-roga*, *anila gada*
Worm grains *pirānaa-* ; *krimi*
Wind-bile *vāṭṭa-pitta-* ; *vāta-pitta*
Wind tumour *vāṭṭaṣṭhīlā-* ; *vātāṣṭhīlā*
Wound *virana-* ; *vraṇa*

Body parts (Eng.-LKh.-Skt)

Abdomen *ura* ; *udara*
Anus *kriṅga-rūvai* ; *guda*
Back *brraha-*
Belly *aha-*
Belly *jsahāra-* ; *udara*
Bile *petta-* ; *pitta*
Bile *ysā'ysa-*
Bladder *phiysgāna-* ; *vasti*
Bladder *vasta* ; *vasti*
Blood *hūñi-* ; *asra*, *rakta*, *śoṇita*
Bone *āstaa-* ; *asthi*
Breath *uysana-* ; *śvāsa*
Breast *paija-*
Eye *tcinan-* ; *akṣi*
Eyeball *jastā-*
Eyelids *hānā-*

Foot *pāa-* ; *pāda*
Groin, thigh-joint *hūṣa* ; *vankṣaṇa*
Head *kamala* ; *mūrdhān*
Doṣas *dūṣa-* ; *doṣa*
Liver *gyagarra-*
Loin **ṣūni-*
(Mid-)thigh *brrāṃga-*
Mouth *āha-* ; *āsya*, *vadana*
Navel *nāhā-* ; *nābhi*
Nipple *maysdara-*
Nostril *haysgā-* ; *nāvana*
Phlegm *śilīsuma-*, *śliṣma-* ; *śleṣman*
Region near the heart *ysair-bana-*
Shoulder *svāmilau* ; *aṃsa*
Skin *kaṅga-*
Skin *ttani-* ; *chavi*
Stomach *khāysāna-* ; *āmāśaya*
Spleen *ṣpaijaa-*
Support (of the intestines) *saṃbhāra* ; *saṃbhāra*
Urine *bīysman-* ; *mūtra*
Waist *myāna-*
Womb (female organs) *pūrāṇa-*; *yoni*
Wind *bāti-* ; *vāta*

Plant names (Eng.-LKh.-Skt.)

This index serves a purely instrumental purpose, aimed at assisting readers in enhancing their comprehension of the text and offering a foundation for potential future investigations. It's important to note that the index is not exhaustive in its coverage of Khotanese botanical terms. Instead, it focuses solely on terms that possess one or more corresponding Sanskrit equivalents in the *Siddhasāra* and *Jīvakapustaka*.

Almond (adj.) (*Prunus amygdalus* Batsch.) vāmīnaa- ; vātāma
Asa foetida (*Ferula assa-foetida* Linn.) aṃguṣṭa ; hiṅgu
Indian barberry (*Berberis aristata* DC.) ysāluā- ; dārvī, pīta-dāru
Bean (*Vigna radiata* Linn.) mauga- ; maudga
Belleric myrobalan (*Terminalia bellirica* Roxb.) vihīlaa- ; vibhītaka, vibhītakī, akṣa
Bladder sorrel (*Garcinia pedunculata* Roxb.) haṃga ; amlavetasa
Castor-oil plant (*Ricinus communis* Linn.) īraṃdaa- ; eraṃḍa
Chaste tree (*Vitex trifolia* Linn., *Vitex negundo* Linn.) hīnaā- ; surasā
Chebulic myrobalan (*Terminalia chebula* Retz.) halīraa- ; harītakī, pathya, abhaya
Cloves (*Syzygium aromaticum* Linn.) lavaṃga- ; lavaṅga
Coriander (*Coriandrum sativum* Linn.) hīysamau ; dhānyāka
Costus (*Saussurea lappa* Clar.) kuṣṭa- ; kuṣṭha
Cotton plant (*Gossypium herbaceum* Linn.) kapāysa- ; karpāsa
Deodar (*Cedrus deodara* Roxb.) devadāra- ; dāru, devakāṣṭha, devadāru
Dill (*Anethum graveolens* subsp. *Sowa* Roxb.) bā ttīman- ; śatapuspā
Embelia ribes (*Embelia ribes* Burm.) vaṇḍaṃgā ; viḍaṅgā
Emblic myrobalan (*Phyllanthus emblica* Linn.) aumalaa ; āmalaka, āmalakī, dhātrī
Fulsee flower (*Woodfordia fruticosa* Kurz.) sauthara spyaka- ; dhātakī
Ginger (*Zingiber officinale* Rosc.) ttuṃgara- ; ādraka, nāgara, viśvā, śuṅṭhī
Groundsel (*Pluchea lanceolata* Clar.) laṃgara- ; rāsnā
Hogweed (*Boerhaavia diffusa* Linn.) uśtā ; punarnavā, varṣābhū, vṛścīva
Indian bdellium (*Balsamodendron mukul* Hook. (= *Commiphora mukul* Eng.), or *Boswellia glabra* Roxb. (= *Boswellia serrata* Roxb.)) gurgula ; mahiṣākṣa, palaṃkaṣa, pura
Indian coral tree (*Erythrina indica* Zoll.) mahā-midā- ; mahā-medā-
Indian madder (*Rubia munjista* Roxb.) rrūnai ; mañjiṣṭhā
Indian valerian (*Tabernaemontana Coronaria* Roxb.) ttāgara- ; vakra
jīvantī (*Holostemma ada-kodien* Schult., *Leptadenia reticulata* Wight & Arn., *Flickingeria nodosa* Dalz., *Dendrobium macraei* Lindl.) jīvatti- ; jīvantī
Jujube (*Ziziphus jujuba* Mill., *Ziziphus mauritiana* Lam.) bara śīṃjā- ; kola, badarī
Leadwort (*Plumbago zeylanica* Linn.) caittra- ; agni, citraka, vahni
Liquorice (*Madhuca indica* Gmel.) mahābuṃja- ; madhuka, yaṣṭīmadhu

Long pepper (*Piper longum* Linn.) *papala* ; *kaṇā*, *kṛṣṇā*, *pippali*, *māgadhī*
 Marking nut (*Semecarpus anacardium* Linn.) *balāttaka-* ; *bhallāttaka*
 Mudar (tree) (*Calotropis gigantea* Linn., *Calotropis procera* Ait.) *raustara* ; *arka*
 Mustard (*Brassica campestris* Linn.) *śaśvāna-* ; (*śveta-*)*sarṣapa*, *siddhārtha*
 Nut grass (*Cyperus rotundus* Linn.) *būhana* ; *musta*
 Oldenlandia (*Fumaria vailantii* Loisel.) *tirṣcya* ; *parpaṭī*
 Orrisroot (*Inula racemosa* Hook., *Psilanthus travancorensis* Wight & Arn., *Iris germanica* Linn.) *hūraṣṭā* ; *pauṣkara*
 Pea (*Pisum sativum* Linn.) *salīcā* ; *satīna*
 Perfumed cherry (*Callicarpa macrophylla* Vahl) *pryaṅgā* ; *priyaṅgu*, *śyāmā*
 Pomegranate (*Punica granatum* Linn.) *drāṅma-* ; *dādīma*
 Radish (*Raphanus sativus* Linn.) *ttrahā-* ; *mūlaka*
 Roseapple (*Syzygium cumini* Linn., *Syzygium fruticosum* DC., *Syzygium jambos* Linn., *Syzygium caryophyllaeum* Gaertn., *Syzygium operculatum* Gamble, *Syzygium rubicundum* Wight et Arn., *Syzygium herbacea* Roxb., *Ardisia humilis* Vahl.) *jamba* (*drraya*); *jambū*(*trayaṃ*)
 Saffron (*Crocus sativus* Linn.) *kurkāma-* ; *kuṅkuma*
 Sesame (*Sesamum indicum* Linn.) *kuṃjsata-* ; *tila*
 Sida root (*Sida cordifolia* Linn., *Sida rhombifolia* Linn., *Sida spinosa* Linn., *Abutilon indicum* Linn.) *sachā-* *bāvā-* ; *balā*
 Sweet flag (*Acorus calamus* Linn.) *āra* ; *vacā*
 Turmeric (*Curcuma longa* Linn.) *halaidrā-* ; *niśā*, *haridrā*
 Turpeth (*Operculina turpethum* Linn.) *traula* ; *trivṛtā*
 Wild croton (*Baliospermum montanum* Müll.Arg.) *dātta-* ; *dantī*, *nikumbha*
 Wild eggplant (*Solanum virginianum* Linn., *S. xanthocarpum* Schrad. & Wendl., *S. surattense* Burm.) *kaṇḍārya* ; *kaṇṭakārikā*, *bṛhatī*, *vyāghrī*
 Wild Himalayan cherry (*Prunus cerasoides* Don) *puṣṭara-* ; *padmaka*
 Winter cherry (*Withania somnifera* Dunal) *aśvagandhā-* ; *aśvagandhā*
 Zedoary (*Hedychium spicatum* Lodd.) *śala-* ; *śaṭī*

GLOSSARY

The words are listed in the following alphabetical order: *a ā ä/i/ī u/ū e/ai o/au k kh g c j ñ ṭ ṭh ḍ ṇ tt/t th d n p ph b m y r/rr l v ś ṣ/ṣṣ s h*. *Anusvāra* (ṁ) and subscript hook (') have not been considered in the alphabetic order. Nasalised vowels (i.e. unetymological *anusvāra*) are treated as the alphabetic equivalent of non-nasalised vowels (e.g. *ā* = *a*). The nasalised vowels are also not considered in the headings. No distinction has been made between *ä/i/ī u/ū e/ai o/au*, differently from *a* and *ā*.

The headings reflect, as much as possible, the Late Khotanese spellings in PiŚ. The precedence to more conservative forms is given when more variant spellings are available. In a more general context, the words listed in the glossary may have several meanings. In the present glossary, only the meaning pertaining with the context has been recorded. On the base of a comparison with the *Siddhasāra* and the *Jīvakapustaka*, the corresponding Sanskrit meaning has been recorded between round brackets. The abbreviation LW indicates that the word is an Indian loanword, unless is stated otherwise. In the case of several terms, it was not possible to establish the gender or meaning (e.g. names of unknown ingredients). When gender is uncertain, it is indicated by 'n.', the abbreviation for 'noun'.

Occurrences containing the editor's supplements or emendations are marked by an asterisk * before the paragraph number. *Akṣaras* or part of *akṣaras* deleted either by the copyist (marked with double square brackets [...]) in the text) or the editor (with braces {...}) are not taken into consideration in the glossary. Grammatical terms are abbreviated as follows: N = nominative, A = accusative, GD = genitive-dative, IA = instrumental-ablative, L =locative, S = singular, P = plural.

A

akūṭ- vb. 'to be unbroken': ppp. *akūṭya-*: GDSm *akūṭye* 85.

akṣara- m. 'akṣa' [LW ← Skt. *akṣa* 'a measure of weight']: NS *akṣarā* 8, *akṣari* 8 (2×), *akṣā* 8.

aṃguṣṭa- m. 'asa foetida (Skt. *hiṅgu*)': NS *aṃguṣṭi* 80, *aṃguṣṭi* 107.

anarva- adj. 'unburst': NS *anarva* 117.

- aysā'yā-** n. 'a medicament': NS *aysā'yā* 17 24, *aysā'ya* 14 (P 2889), *aysāya* 14.
- aysu** pers. pron. 'I': GD *maṃ* 6.
- arrja-** m. 'piles (Skt. *arśas*)' [LW]: GDS *arrjä* 77 81 82 83; NAP *arrja* 79, *arrjä* 78 80 81.
- arūvā-** f. 'castor-oil plant (?)' [LW]: NS *arūva* 34.
- arvā-** f. 'medicament, drug (Skt. *auśadha*, *dravya*, *bheṣaja*)': NS *arva* 8; IAP *arvyau jsa* 65, *arvyau jsä* 108.
- avaśyā-** n. 'a medicament': N *avaśya* 94.
- aviṣṅī'naa-** adj. 'pert. to pistachio nut (Skt. *abhiṣuka*)' [LW + *-īnaa-*]: NS *aviṣṅī'nai* 8.
- avīysāra-** m. 'diarrhoea (Skt. *atīsāra*)' [LW]: AS *avīysārā* 117.
- aśa-** m. 'horse': GDS *aśā* 52.
- aśvagamdhā-** f. 'winter cherry (Skt. *aśvagandhā*)' [LW]: NS *aśvagamdhā* 14 108, *aśvägamdhā* 113, *aśvagadha* 14 (P 2889).
- aṣṇūha-** m. 'pigeon (Skt. *kapota*) dung (Skt. *viṣ*)': NAP *aṣṇūha* 26 94, *aṣṇūha* 90 91.
- askin-** vb. 'to take out': part. nec. *askināna-*: NSm *askināñä* 128.
- ah-** : **ya-** vb. B act. intr. (perf. intr.) 'to be, exist': negative 3S pres. ind. *naištā* 62; 3P pres. ind. *īmde* 45 68 108 113 114; 3S pres. opt. *ī* 47.
- aha-** m. 'belly': AS *aha* 57 60; GDS *ahē* 58 62; LS *ahañā* 10, *ahañāṣṭā* (+ *āṣṭā*) 59.
- ahaysnāva-** adj. 'unwashed': NSm *ahaysnāva* 13.
- ahi** n. 'a medicament': NS *ahi*: 117.
- ahauḍa-** m. 'bottle-gourd (Skt. *alābu*)': GDS *ahauḍä* 120, *ahāḍä* 48 72.
- ahauḍi-vārrja-** m. 'bottle-gourd leaf': GDS *ahauḍi-vārrjä* 45.
- Ā**
- ā** conj. 'or': *ā* 87, *ā-v-am jsä* (+ *-am jsä*) 115. Phrase: **ā vā** 'or alternatively' 19 21 47 64 85 91 94 (2×) 114.
- āchaa-** m. 'disease (Skt. *gada*, *roga*; 'wind disease' *māruta-roga*, *anila gada*)': NAP *āchā* 12 14 45, *āchā* 75; GDP *āchām* 1 63 125.
- ājvā-** f. 'skin': NAP *ājve* 96.
- āḍa-** m. 'barley semolina (Skt. *saktu*)' [LW]: NS *āḍä* 24 26 61 102 104 124, *āḍa* 10 12 19 91.
- Compound: **rūsāḍa-**.
- āna** postp. + L or adv. 'from': *āna* 7 117.
- āphāra-** m. 'disturbance': GDS *āphārā* 5; AS *āphārā* 38 42 118.

āphir- vb. A mid. intr. ‘to be disturbed (Skt. *duṣṭā*)’: 3S pres. ind. *āphide* 4, *āphede* 5 6; 3P pres. ind. *āphīrārai* 8.

āma- adj. ‘undigested’ [LW ← Skt. *āma*]: ASm *āma* 10.

āyv- vb. tr. ‘to heat’: part. nec. *āyvāña-*: NSm *āyvāñā* 22 72; NAPm *āyvāñā* 109.

ā’ysaṃ m. ‘millet’: NS *ā’ysaṃ* 81.

ār- : ārrda- vb. tr. ‘to grind’: part. nec. *ārāña-*: NSm *ārāñā* 50 58 110 126, *ārāña* 122; NS *ārāñā* 28; NAPm *ārāña* 2 44 62 90, *ārāñā* 124, *ārāñā* 6 10 12 20 22 24 26 27 30 51 52 55 59 71 103 106 117 (2×) 122 128, *ārāñā* 91; NAP *ārāña* 113, *ārāñā* 18 78; N *ārāña* 117; ppp. *ārrda-*: NSm *ārrdā* 21; N *ārrdā* 127.

ārā- n. ‘sweet flag (Skt. *vacā*)’ [LW]: NS *āra* 14 14 (P 2889) 53 55 90 91 107 125, *ārā* 26.

āṣka- m. ‘drop’: NAP *āṣkā* 36 44 (2×) 48 52 92.

āṣkia- adj. ‘tearful’: NSm *āṣkī* 6.

-āṣṭā directional suffix + L or adv.: see **aha-**, **niha-**, **tciman-**, **biṃdā**, **hāna-**.

āstaa- m. ‘bone (Skt. *asthi*)’: NAP *āste* 48.

āstaṃna postp. + GD ‘beginning with, and so on’: *āstaṃna* 100.

ā’sia- m. ‘itching (Skt. *kaṇḍū*)’: AS *ā’sī* 94, *āsī* 97, *āsī* 88 95; GDS *ā’sī* 94, *āsī* 87; IAS *ā’sye* 85; NAP *ā’sye* 91; GDP *ā’syām* 84, *āsyau* 93.

āh- : āsta- vb. B mid. intr. (perf. intr.) ‘sit, dwell’: part. pres. NAPf *āni* 85.

āha- m. ‘mouth (Skt. *āsya*, *vadana*)’: LS *ehi* 127.

āhā- f. ‘egg (Skt. *aṇḍa*)’: NS *āha’* 44; IAS *āha’na* 21.

***āhusāñ-** vb. A tr. ‘to make sweat (Skt. *presveda*, *sveda*, *svedana*, *svinna*)’: 3S pres. ind. *āhusāñe* 125.

āhvaraa- adj. ‘sour (Skt. *āraṇala*, *amla-kāñjika*)’: IAS *āhvarai* 91.

I/Ī

-ī encl. 3S pron.: *-i/-ä + -ī > -ī* see **tciman-**, **drāma-**, **śliṣma-**; *-i/-ä + -ī > -ai* see **biṃdā**, **ṣi’**.

īraṃdaa- m. ‘castor-oil plant (Skt. *eraṇḍa*)’ [LW]: NS *īraṃde* 14 22 32 39 50 51 75 107 108, *īraṃde* 27 55 70 125, *īrade* 14 (P 2889) 27 (P 2889); GDP *īraṃdām* 29.

U/Ū

u conj. ‘and’: *u* 1 3 4 5 6 (4×) 10 11 (2×) 12 14 (4×) 14 (P 2889) 18 22 (3×) 24 27 28 (2×) 36 37 39 43 44 45 48 (3×) 50 52 54 60 63 64 65 66 67 (2×) 69 70 72 (3×) 74 78 80 81 (2×) 83 84

85 (5×) 86 87 88 (2×) 89 90 99 (2×) 102 104 (2×) 106 (2×) 111 (2×) 116 117 (5×) 118 120
122 124 128 (6×), *ū* 38 61 80 82 99 117.

-**ūṃ**, -**m** encl. 3P pron.: see **biśa-**, **vara**²; -*ūṃ jsa* see **jseṇa**, **piṇḍaa-**, -*ūṃ jsä* see **piṇḍaa-**, **naṣa-**,
-*m jsä*- see **ranīka-**, -*aṃ jsä* see **ā**, *ū jsä* see **makṣ-**.

utcā- f. ‘water (Skt. *ambu*, *jala*, *vāri*, etc.)’: NS *ūtca* 107, *ūtcā* 99 (2×), *utcī* (+ *-ī*) 119; IAS *uci
jsa* 6 14, *uci jsä* 17 73, *ūci jsa* 19, *ūci jsä* 8 120, *ūcā jsi* 7, *ucā jsä* 61, *ucā jsa* 94, *ucāna* 128
(2×).

ūpadeśā- n. ‘venereal disease’ [LW ← Skt. *upadaṃśa*]: AS *ūpadeśā* 69.

uysanā- f. ‘breath (Skt. *śvāsa*)’: GDS *ūysaṇa* 38, *uysaṇā* 118, *uysānā* 42.

ūysūy- : ***uysuta-** vb. tr. ‘to strain out’: part. nec. *ūysūyāñā-*: NAPm *ūysūyāñā* 109.

uysbāy- vb. A tr. ‘to draw out’: 3S pres. ind. *uysbāyi* 80.

uysmā- n. ‘clay’: NS *uysmā* 21.

ura- m. ‘belly (Skt. *udara*)’: GDS *ura* 11, *urā* 22.

ulīñā- adj. ‘pert. to the camel (Skt. *auṣṭra*)’: NSf *ulīñā* 75 108, *ulīñā* 39; IASf *ulīñe* 22 70,
ulīñye 57.

u’štā- ‘hogweed (Skt. *punarnavā*, *varṣābhū*, *vṛścīva*)’: NS *u’štā* 105.

ūskivaśe n. ‘a disease (?)’: N *ūskivaśe* 72; A *uskivaśe* 72.

ustama- adv. ‘finally’: *ustam* 11.

uspaśd- vb. tr. A ‘to produce’: 3S pres. ind. *aspaśde* 74.

O/AU

auda adv. ‘up to’: *audā* 122.

aumalaa- m. ‘emblic myrobalan (Skt. *āmalaka*, *āmalakī*, *dhātrī*)’ [LW]: NS *aumalai* 2 5 7,
āmalai 42 68.

K

kaṅga- m. ‘skin’: GDS *kaṅgyā* 37.

kacau adv. ‘somewhat’: *kacau* 4.

kanaā- f. ‘drop’: NAP *kaṇai* 8.

kaṇḍāriā- f. ‘wild eggplant (Skt. *kaṇṭakārikā*, *bṛhatī*, *vyāghrī*)’ [LW ← Skt. *kaṇṭakārikā*]: NS
kaṇḍārya 64.

kapāysa- m. ‘cotton plant (Skt. JP *karpāsa*)’ [LW]: NS *kapāysā* 98 107.

kapūra- m. ‘camphor (Skt. *karpūra*)’ [LW]: NS *kapūrā* 8, *kapūra* 8.

- kabǎ-** n. ‘a measure’ [LW ← Chin. *kâp* (合 gě)]: NS *kabä* 118.
- kamala-** m. ‘head (Skt. *mūrdhān*)’: NS *kamalä* 8; GDS *kaṃala* 8; LS *kamä’ñä* 119, *kami’ña* 124. Phrase: see **rāha-**.
- kalamakyǎ-** n. ‘?’: NAP *kalamakyä* 120.
- kalarbǎ-** n. ‘a medicament’: NS *kalarbä* 69.
- kaśś-** : **kaṣṭa-** vb. mid. intr. B ‘to appear’: 3S pres. ind. *kaśte* 72.
- kaṣā’a-** m. ‘decoction (Skt. *kaṣāya*, *kvātha*, *sva-rasa*, etc.)’ [LW ← Skt. *kaṣāya*]: NS *kaṣā’* 8; IAS *kaṣe’na* 89 102, *kaṣe’jsa* 104; LS *kaṣā’ña* *8.
- kasaa-** m. ‘fever (Skt. *jvara* JP)’: AS *kasai* 52 53 54.
- kastīrǎ-** n. ‘tin’: NS *kastīrā* 64.
- kaṃha-** m. ‘hemp’: NS *kaḥä*’ 85, *kaḥä:*’ 117.
- kaṃhīnaa-** adj. ‘pert. to hemp’: NSm *kaḥīnai* 99.
- kākauṭi-** f. ‘a medicament (Skt. *kākolī*)’ [LW]: NS *kākauṭä* 106.
- kāṃjia-** m. ‘sour gruel (Skt. *kānjika*, **sauvīra*)’ [LW]: IAS *kāṃjīna* 114.
- kāla-** m. ‘time (Skt. *kāla*)’: NS *kālī* (+ -ī) 62.
- kuṃjsata-** m. ‘sesame (Skt. *tila*)’: NS *kuṃjsa* 3 6 (2×) 14 20 22 30 34 38 40 52 55 59 61 70 107, *kūṃjsa* 5 39, *kuṃjsä* 75 104, *kāṃjsa* 26 91, *kāṃjsa* 110 114 117, *kujsa* 122 124 125 128, *kūjsa* 14 (P 2889), *kujsa* 112; IAS *kuṃjsaṃna* 8.
- kuṃjsavīnaa-** adj. ‘pert. to sesame (Skt. ‘sesame oil’ *taila*)’: NSm *kuṃjsavīnai* 65, *kujsavīnai* 125, *kāṃjsavīnai* 107, *kāṃjsavīnai* 115, *kāṃjsavīnai* 100; IASm *kuṃjsavīnai* 71, *kujsavīnai* 86, *kujsavīnai* 29 50 81, *kūjsavīnai* 73, *kūjsavīnai* 47, *kujsavīnai* 64; LSm *kuṃjsavīnai* 80.
- kuṃjsārgyā-** f. ‘sesame oil cake (Skt. *piṇyāka*)’: NAP *kuṃjsārgyā* 16.
- kuṃbā** n. ‘linseed (Skt. *ataṣī*)’: N *kuṃbā* 6 (2×) 14 28 38, *kuṃbā* 20, *kāṃbā* 14 (P 2889) 26 91 117 125, *kāṃbā* 112.
- kūṭ-** : ***kūṭāta-** vb. tr. ‘to pound; to ache’ [LW ← Skt. *kuṭṭ*]: part. nec. *kuṭāña-*: NSm *kūṭāñä* 98, *kūṭāñä* 111 114; NSf *kūṭāñä* 69; NS *kūṭāñä* 82, *kuṭāñä* 17; NAPm *kūṭāñä* 3 5 7 8 68 87 108 112, *kūṭāñä* 14 25 31 32 34 38 39 41 46 47 48 53 57 58 60 64 75 81 92 95 96 97 107 120 128, *kuṭāñä* 40, *kuṭāñä* 6 13 33 115, *kūṭā’ñä* 61; NAPf *kūṭāñä* 79; NAP *kūṭāñä* 23 94, *kuṭāñä* 105; ppp. **kūṭāta-*: NSm *kūṭye* 99; IASm *kūṭye* 89; NAPf *kūṭya* 85 99.
- kurkāma-** m. ‘saffron (Skt. *kuṅkuma*)’ [LW]: NS *kurkāṃ* 8, *kuṅkāṃ* 8.

kuṣṭa- m. ‘costus (Skt. *kuṣṭha*)’ [LW]: NS *kuṣṭā* 14 32 50 55 64 71 91 107, *kuṣṭi* 27 125, *kūṣṭā* 27 (P 2889), *kūṣṭa* 14 (P 2889).

kuṣṭa- m. ‘skin disease (Skt. *kuṣṭha*)’ [LW]: NS *kuṣṭā* 99; GDS *kuṣṭā* 86 100.

kūṣṭa conj. ‘where’: *kūṣṭā* 108 110 115, *kuṣṭā* 85 113 114.

kaura hvāṣa- m. ‘kaura-grass’: LS *kaura hvāṣi* 86.

kyahai- vb. C mid. intr. ‘to itch’: 3P pres. ind. *kyahāre* 6, *kyihāre* 85.

krreṃgīñā- adj. ‘pert. to the fowl (Skt. *dakṣa*)’: NSf *krreṃgīñā* 44; IASm *krreṃgīñe* *21.

krreṃga-rūvaa- m. ‘anus (Skt. *guda*)’: LS *krreṃga-rūya* 80, *krreṃgā-rūya* 78, *krregā-rūya* 79.

kṣāra- m. ‘alkali (Skt. *kṣāra*)’ [LW]: NS *kṣārā* 48 126.

kṣi’ card. num. ‘six’: NA *kṣi’* 8.

kṣīra-kākauṭā- f. ‘a medicament (Skt. *kṣīra-kākolī, kākolī-dvaya*)’: NAP *kṣīra-kākauṭā* 106.

KH

khaśa’- m. ‘drink (Skt. *pāna*)’: NAP *khaśa’* 7.

khāysa- m. ‘food (Skt. *anna*)’: GDS *khāysā* 60.

khāysāna- m. ‘stomach (Skt. *āmāsaya*)’: LS *khāysāñā* 9 11 12 13 14 14 (P 2889) 24 25 26 27 48, *khāysāñā* 10.

khās- vb. A act. tr. (perf. tr.) ‘to drink’: part. nec. *khāsāñā-*: NSm *khāsā’ñā* 120, *khāsāñā* 65 118; NAPm *khāsāñā* 7, *khāsā’ñā* 76.

khāhā- f. ‘spring’: GDP *khāhām* 19.

khu conj. ‘when, if, as soon as; so that, that’: ‘when, if, as soon as’ *khu* 4 5 8 (4×) 71 73 74, *khvai* (+ -ī) 47; ‘so that’ *khu* 8, *khū* 100 120, *khvai* (+ -ī) 127; ‘that, as’ *khū* 100 (2×). Phrases: **khu ra** ‘until’: *khu ra* 7, *khu ri* 86; see also **daṃḍā**.

khūra- adj. ‘?’: NAPm *khūra* 52.

khaiyā- f. ‘ache’: AS *khaiya* 55; GDS *khaiya* 40.

khyera- adj. ‘pert. to the ass’: NSm *khyera* 109; IASm *khyera* 50 122; NSf *khyerā* 108; IASf *khyerye* 55 70.

G

gachāka- m. ‘kernel’: GDP *gachākām* 7, *gīchākām* 62.

ganama- m. ‘wheat (Skt. *godhūma*)’: NS *gaṇam* 111; LS *ganīma* 28.

ganānaa- adj. ‘stinking, fetid’: NSm *ganānai* 14 *ganānai* 115, *ganām* 14 (P 2889).

ggaṃtsa- m. ‘hole’: NS *gatsā* 85.

gaysa- m. ‘reed’: GDS *gaysä* 91.
garkha- adj. ‘heavy’: NAPf *garkhye* 4; *garkhyä* 6.
garṣva- m. ‘stone (?)’: NAP *garṣva* 52.
gichana- m. ‘plantain (Skt. *moca*)’: GDP *gichanāṃ* 8, *gīchaṇā* 14 52, *gīchanā* 14 (P 2889).
gitsīrinaa- adj. ‘of gypsum’: LSm *gitsīrīṇā* 123.
gītsera- m. ‘gypsum’: NS *gītserä* 85.
guṇṅ-/gāṅṅ- n. ‘a medicament’: GDP *guṇṅāṃ* 14, *gāṅṅāṃ* 97, *gāṅṅā* 14 (P 2889) 51 52 91, *gāṅṅā* 95.
ggūnaa- m. ‘mark, sign (Skt. *rūpa, lakṣana*)’: GDS *gūṅnai* 69.
gumal- vb. tr. ‘to mix; to besmear’: part. nec. *gūmalyāñā-*: NSm *gūmalyāñā* 27 28 32 73, *gūmalyāñā* 102, *gūmalyāñā* 20 24 67 104 127, *gūmalyāñā* 27 (P 2889), *gūmalyāñā* 122, *gumalyāñā* 50, *gūmilyāñā* 26, *gūmilyāñā* 124; NAPm *gūmalyāñā* 99; NAP *gūmalyāñā* 29.
gūra- m. ‘grape (Skt. *drākṣā, mṛdvikā*)’: NAP *gūra* 3 5 25 33 34 39 40 41 42 51 58 60 61 87 95 97 124, *gūrā* 75, *gurā* 46 57.
gurgulā- n. ‘bdellium (Skt. *pura*)’ [LW ← Skt. *gulgulu*]: NS *gurgula* 22.
gurmāña- vb. ‘to be broken (?)’: part. nec. *gurmāña-*: NSm *gurmāñā* 50.
gūrva- m. ‘semolina’: NAP *gūrva* 19 46 57 91.
gūrva- adj. ‘ground’: NSm *gūrve* 55; IAPm *gūrvyau* 85, *gūrvāṃ* 8.
gula- m. ‘crude sugar (Skt. *guḍa, phāṇita*)’ [LW ← Skt. *guḍa*]: NS *gulā* 48.
gau’ma- m. ‘internal tumour (Skt. *gulma*)’ [LW ← Skt. *gulma*]: NAP *gau’ma* 48, *gā’mi* 91.
gau’sa- m. ‘millet (Skt. *priyaṅgu*)’: IAS *gau’sāna* 89.
grrāma- adj. ‘hot, warm (Skt. *uṣṇa*)’: reduplicated NSm *grrāṃ grāṃ* 5, *grāṃ grāṃ* 6 55 68 70 72 109 128; IASf *grāṃye* 120.
grāmaka- adj. ‘warm (Skt. *uṣṇa*)’: NSm *grāmakā* 4.
grāmūtcā- f. ‘warm water’: LS *grāmūcā* 29.
grūṣka- m. ‘skin, bark (Skt. *tvac*)’: NS *grūṣkā* 48; GDP *grūṣkyāṃ* 48 126.
grrainaa-, grīṃjā- adj. ‘of clay’: LSm *greña* 115; NSf *grīṃja* 85.
gvāś- vb. act. tr. ‘to separate’: part. nec. *gvāśa’ñā-*: NSm *gvāśau’ñā* 86.
gvīha’- adj. ‘pert. to the cow’: NSm *gvīha’* 7 8, *gvīhā’*: 127, *gvīhā* 115, *gvīhi’* 93 102, *gvī’ha’* 118, *gvī’hi’* 107, *gvī’hā’*: 125; GDSm *gvī’ha’* 94; IASm *gvīha’* 20 59, *gvīhā’* 60 62, *gvīhā’* 122,

gvī'ha' 27 28 31 34 58 124, *gvī'hä'* 32 87 94 128, *gvī'hä'*: 47, *gvīhi'*: 106, *gvī'ha'*: 33, *gvīha* 27 (P 2889), *gvī'hye* 22 33.

gvai' n. 'a medicament': N *gvai'* 94.

C/KY

candana- m. 'sandal-wood (Skt. *rakta-candana*)' [LW]: NS *caṃda* 40, *caṃdä* 64.

caṃbūla- adj. 'disturbed': NAPm *caṃbūla* 6.

cī conj. 'if': *cī* 62.

cimṅa- m. 'Chinese person': GDPm *cimṅam* 8, *cigām* 8, *cegām* 123.

cipan- vb. B 'to cut up, chop, crush': part. nec. *cipaṅāñā-*: NSm *cipaṅāñä* 43; NAPf *cipaṅāñä* 119.

cirutta- m. 'beeswax (Skt. *siktha*)': NS *ciruttä* 105; IAS *cirūttāna* 106.

cu conj. 'when, if, which, that': *cu* 6 7 28 41 64 68 85 127, *cū* 68 (2×) 71 72 78 122 123 127, *ci* 128, *cvai* (+ *ī*) 98.

cū indef. pron. 'whatever': *cū* 45.

cūvaṃ n. 'barberry extract': NS *cūvaṃ* 71, *cuvaṃ* 78.

caittraa- m. 'leadwort (Skt. *agni, citraka, vahni*)' [LW ← Skt. *citraka*]: GDS *caittrai* 48.

caurśi' n. 'a medicament': NS *caurśi'* 76.

J/GY

jarra- m. 'liver': NS *jara* 41; AS *jara* 43; GDS *jara* 37 42 43 44 47 48, *jarä* 35 36 39 46, *jarra* 47, *jarrä* 40 45; LS *jaraña* 45.

jastā- f. 'eyeball': NAP *jastä* 85.

jah- : **jasta-** vb. B mid. intr. 'to be cured (Skt. *sidh, sukhī bhū*)': 3S pres. ind. *jatte* 4 5 6 7 36 64 66 100 127; 3P pres. ind. *jahāre* 8, *jihāre* 108.

jīn- vb. B act. tr. (perf. tr.) 'to remove' (Skt. (°)*śudh, (°)han, hṛ, etc.*): 3S pres. ind. *jīṃdä* 8 11 12 14 17 20 22 23 24 26 27 28 32 38 42 47 48 (2×) 52 55 61 65 70 75 106 112 113 114 115 122 124 126 128, *jidä* 2 8 29 39 48 105 128, *jēṃdä* 33 67 69 78 (2×) 79 81 96 104 109 118 121 124, *jēṃdä*: 107.

jīnāka- m. 'remover' (Skt. (°)*śudh, (°)han, hṛ, etc.*): NS *jīnākä* 30 34 40.

jīy- : **jīta-** vb. B mid. intr. 'to disappear; be removed (Skt. *ghna, nud, prakṣīṇa, etc.*)': 3S pres. ind. *jīye* 119 128, *jīye* 123; 3P pres. ind. *jāre* 99.

jīlabhaṃga- m. 'acute-angled cucumber (Skt. *jālini-phala*)': NS *jīlabhaṃgä* 120.

jīvaka- m. ‘a medicament (Skt. *jīvaka*)’ [LW]: NS *jīvaka* 105, *jīvakā* 106.

jīvatti- f. ‘a medicament (Skt. *jīvantī*)’ [LW]: NS *jīvattā* 106.

jīṣ- : **jiṣṭa-** vb. B mid. intr. ‘to boil’: 3S pres. ind. *jīṣḍī* 8; ppp. *jiṣṭa-*: IASm *jiṣṭye* 89.

jūna- m. ‘time (Italian *volta*)’: NAP *jūna* 6 120, *jūṃ* 8 128.

juṣṭīnaa- m. ‘jute fabric’: IAS *juṣṭīnainai* (+ *-ī*) 85.

jambā- f. ‘applerose (Skt. *jambū*)’ [LW]: NAP *j(am)b(a)* *18.

jṣā’ñ- vb. act. tr. ‘to boil’: part. nec. *jṣā’ñāñā-*: NSm *jṣā’ñāñā* 80 99; NSf *jṣā’ñāñā* 69 118; NAPm *jṣā’ñāñā* 102 104 115 128; NAPf *jṣyāñāñā* 79; NS *jṣā’ñāñā* 17 100; NAP *jṣā’ñāñā* 6, *jṣā’ñāñā* 7 8 (2×) 67 113.

jsanaspārā- n. ‘a medicament’: NS *jsanaspāra* 18.

jsahāra- m. ‘belly (Skt. *udara*)’: NS *jsahāra* 10; LS *jsahera* 27.

jsā- vb. B mid. intr. ‘to go’: 3S pres. ind. *jsāve* 6 8.

jsenā adv. ‘finely, in detail; slightly’: *jsiñā* 8, *jsiñā* 85; reduplicated *jsenā jsenā* 86; + *-ūṃ jsa*: *jsiñūṃ jsa* 4.

Ñ

ñya- m. ‘buttermilk (Skt. *dadhi*)’: NS *ñye* 125; IAS *ñyena* 91, *ñenaḥ jsā* 117, *ñena* 126.

ñūṣṭ- vb. act. tr. (perf. tr.) ‘to wrap (Skt. *ābaddha*)’: part. nec. *ñūṣṭyāñā-*: NSm *ñūṣṭyāñā* 4; NAPm *ñūṣṭyāñā* 70, *ñūṣṭyāñā* 37.

T/TT

tta adv. ‘so’: reduplicated *tta tta* 86.

ttajs- vb. B act. intr. ‘to ooze’: 3S pres. ind. *ttāṣṭā* 85.

ttamgalaka- adj. ‘thin’: LSm *ttamgalakañā* 4.

ttani- f. ‘skin (Skt. *chavi*)’: GDS *ttiñye* 30; LS *ttāñā* 33, *ttāñā* 90.

ttara- m. ‘thirst (Skt. *tarṣa*, *trṣṇā*)’: NS *ttarā* 123, *ttarī* (+ *-ī*) 123.

ttā directional particle for actions directed towards the person addressed: *ttā* 1 116.

ttī adv. ‘then’: *ttī* 6 (2×) 8 (2×) 11 47 65 67 100 117 124 128 (2×), *ttī* 128.

ttīman- nt. ‘seed’: NS *ttīma* 39 87 90 91, *ttīṃ* 98, *ttī* 107; NAP *ttīme* 120.

ttira- adj. ‘such great’: ASf *ttira* 8.

ttīra- adj. ‘bitter, sour (Skt. *amla*, *tikta*, *śukta*)’: GDSm *ttīra* 48, *ttīrā* 72, *ttīrā* 120; IASm *ttīra* 91 117 126.

ttīrādānā- f. ‘a medicament’: NAP *ttīrādāñā* 85.

ttīrādānīnaa- adj. ‘pert. to the *ttīrādānā* plant’: NSm *ttīrādānīnai* 85, *ttīrādānīnai* 86.

ttīlaka- adj. ‘little’: NSm *ttīlakā* 118 128, *ttīlaka* 4.

ttirṣcyā- n. ‘oldenlandia (Skt. *parpaṭī*)’: NS *ttirṣcyā* 59.

ttuṃgara- m. ‘ginger (Skt. *ādraka, nāgara, viśvā, śuṅṭhī*)’: NS *ttaugarā* 76, *ttāgarā* 125.

tturra- m. ‘mouth (Skt. *vaktra*)’: NS *tturā* 85.

ttauda- adj. ‘hot (Skt. *uṣṇa, dāha*)’: NSm *ttauda* 128; GDSm *ttaudye* 31; NAP *ttaudā* 68.

tcabe’j- : **tcabrīya-** vb. A tr. (perf. tr.) ‘to scatter, disperse’: 3S pres. ind. *tcabe’je* 13 19 90, *tcaba’je* 89.

tcabe’jāka- m. ‘dispenser’: NS *tcabe’jākā* 21.

tcāṃśvā- n. ‘a medicament’: IA *tcyāṃśvīna* 54.

tcārā- f. ‘(liquid) fat (Skt. *vasā*)’: NS *tcāra* 39 108, *tcārā* 75 76 108 (2×); IAS *tcāra jsä* 22 48 70, *tcārā jsä* 70, *tcāri jsä* 57, *tcāri jsi* 55.

tcārba- adj. ‘greasy (Skt. *snigdha*)’: NSm *tcārbā* 86.

tcīña- m. ‘yeast (Skt. *kiṇva*)’: NS *tcyāñā* 90, *tcyāñā* 91.

tciman- nt. ‘eye (Skt. *akṣi*)’: LS *tcimñā* 2 4 5 6 (2×), *tcīñā* 7, *tcīña* 3 5 128; *tceña* 4, *tcim’ñāṣṭā* (+ *-āṣṭā*) 8; NAP *tcime’ña* 127, *tcaimē’ña* 8, *tcīme’ñā* 8, *tcīmañī* (+ *-ī*) 5, *tcimañī* (+ *-ī*) 6; GDP *tcīmañvā* 4.

tcaura- card. num. ‘four’: NAm *tcaura* 127.

ttrahā- f. ‘radish (Skt. *mūlaka*)’: NAP *ttrahe* 11 12 16 18 24 25 26 27 32 79 117, *ttrahi* 27 (P 2889); GDP *ttrahām* 126.

ttrām- : **ttranda-** vb. A act./mid. tr./intr. (perf. intr.) ‘to enter’: 3S pres. ind. *ttrāme* 127.

ttriphālā- f. ‘the three fruits (Skt. *triphālā*)’ [LW]: NS *ttriphālā* 7.

ttraikṣa- adj. ‘severe; acid’ [LW ← Gandh. < Skt. *tīkṣṇa*]: GDSm *ttraikṣā* 94; NAPf *ttraikṣā* 47.

traulā- n. ‘turpeth (Skt. *trivṛtā*)’: NS *traulā* 113.

TH

thamj- vb. A mid. tr. (perf. tr.) ‘to pull, take out’: 3S pres. ind. *thamje* 80; part. nec. *thamjāñā-*: NSm *thamjāñā* 8 99, *thamjāñā* 99; NAPm *thamjāñā* 60.

tharka- m. ‘walnut (JP *akṣoṭa*)’ [LW ← Tib. *star ka*]: GDS *tharka* 39 76, *tharkā* 61 75 108.

thāsakā- n. ‘a vessel’: LS *thāsakāñā* 100.

D

damdā adv. ‘so much, so long’: Phrase: *damdā khu ra* ‘until’: *damdā khu ra* 6 8 (2×) 99, *damdā khū ra* 99, *damdā khu* 85, *damdā...khū* 100, *dadā...khu* 128.

dara- adj. ‘split’: GDSm *darye* 10.

dara- m. ‘hollow’: LS *darā* 85.

daśāṃga- m. ‘Daśāṅga’ [LW ← Skt. *daśāṅga*]: NS *daśāṃgā* 26.

dasau card. num. ‘ten (Skt. *daśa*)’: NA *dasau* 6.

daha- m. ‘man’: AS *dahā* 76.

dahīña- adj. ‘male’: GDSm *dahīñā* 69.

dāa- m. ‘fire (Skt. *agni, anala, jyotis*; ‘(digestive) fire’ *dīpana, vahni*): NS *dai* 85; IAS *dāṇa* 60.

dājsaṃdaa- m. ‘a medicament’: NS *dājsaṃdai* 26 53 90.

dātti- m. ‘wild croton (Skt. *dantī, nikumbha*)’ [LW ← Skt. *dantī*]: NS *dāttā* 117.

dīna prep. ‘below’: *dīnai* (+ -ī) 85.

dīra- adj. ‘bad’: GDSm *dirye* 22.

dīraḡ posp. + GD ‘below, in’: *dīraḡ* 85.

dūmā- n. ‘smoke’: NS *duṃi* 127.

dūma-hauṣṭa- adj. ‘smoke-dried’: NAPm *dūma-hauṣṭa* 5 *dūma-hauṣṭā* 39, *dūmā-hauṣṭā* 51, *dūma-hauṣṭā* 42 75, *dūmi-hauṣṭā* 60 61, *dūmi-hauṣṭā* 95, *duṃi-hauṣṭā* 97.

dūra- adj. ‘hard’: NAPm *dūra* 71.

dūvara- m. ‘dropsy (Skt. *udara*)’ [LW ← Gandh. < Skt. *udakodara*]: AS *dūvarā* 12 22 61.

dūṣa- m. ‘doṣa’ [LW ← Skt. *doṣa*]: IAP *dūṣyau’ jsa* 7.

devadāra- m. ‘deodar (Skt. *dāru, devakāṣṭha, devadāru*)’ [LW ← Skt. *devadāru*]: NS *devadārā* 125.

***druṣ- : durṣṭa-** vb. ‘to bite’: ppp. *durṣṭa-*: GDS *duṣṭi* 94, *durṣṭi* 93.

drā-masi indecl. adj. ‘having the size of a hair’: *drā-masi* 4.

drāma- adj. ‘such’: NS *drām* 100 128, *drāmī* (+ -ī) 6.

drāmma- m. ‘pomegranate (Skt. *dāḍīma*)’: NS *drrāma* 39 91 115, *drāma* 87 117.

drai card. num. ‘three’: NA *drai* 6 (2×) 7 8, *drrai* 85 99 120 128, *drre* *18; IA *drayau* 7.

dva card. num. ‘two’: NAm *dva* 8 12 (4×) 72 85 (2×) 120; Naf *dvī* 7 8 (2×), *dvyī* 62 (2×).

N

na adv. ‘below (Skt. *adhas*)’: *na* 7 74 76 117.

nata- adj. ‘lower’: NSm *na* 71.

namvā- f. ‘salt (Skt. *lavaṇa*)’: NS *nāmva* 10, *namva* 11 12 26 52 81 109; IAS *namve jsa* 53, *namvena* 18 54 112.

namvīnaa-, **namvīm̐jā-** adj. ‘salted (Skt. *lavaṇa*)’: IASf *namvīm̐je* 73.

naysdā-vaha’- adj. ‘nearly cooked’: NSm *naysdā-vahā’* 8.

narām- : **naranda-** vb. act. tr./intr. (perf. intr.) ‘to come out’: 3S pres. ind. *narāme* 78 98 119.

naraiyā- n. ‘scrotal enlargement (Skt. *vṛddhi*, JP *vardhma*)’: AS *naraiya* 65 67, *naraiye* 66; GDS *naraiya* 63.

nālā-virā- n. ‘tubular wound (Skt. *nāḍī-vraṇa*)’ [LW]: AS *nālā-virā* 96.

naṣi n. ‘coction’: N *naṣī* 117, *naṣīyūṃ jsä* (+ *-ūṃ jsä*) 117.

naṣkirr- vb. B tr. ‘scatter (?)’: 3S pres. ind. *naṣkirrdä* 97.

naṣpaśd- vb. A tr. ‘to remove, expel’: 3S pres. ind. *naṣpaśde* 10.

nām̐ji f. ‘a medicament’: N *nām̐ji* 28.

nāman- nt. ‘name’: AS *nāma* 26.

nāṣṭā adv. ‘downwards (‘downwards motion’ Skt. *viṣṭambhin*)’: *nāṣṭā* 63 71.

nāha- m. ‘navel (Skt. *nābhi*)’: LS *neha* 57 58, *neha’* 60, *niha* 59 62, *nihä* 61, *nihä’* 80, *nihāṣṭā* (+ *-āṣṭā*) 56.

ni adv. ‘not’: *ni* 4 74, *nä* 8, *na* 120.

nīyaka- m. ‘(fresh) butter’ (Skt. *navanīta*): NS *nīyakä* 36 45; IAS *nīyakänä* 78.

nīysua- m. ‘lentil (Skt. *masūra*)’: NAP *nīysva* 67.

nīra- m. ‘water’ [LW ← Skt. *nīra*]: NS *nīra* 8.

nirūj- : ***niruta-** vb. tr. ‘to burst’: ppp. **niruta-*: GDSf *narve* 87.

niś- : **niśāta-** vb. A act. tr. (perf. tr.) ‘to put in, insert’: part. nec. *niśāña-*: NSm *niśāñä* 5, *niśāña* 4, *nīśāñä* 6 10 11 19 22 67 70 72, *nīśāña* 127; NS *nīśāña* 83.

niṣem- : **nāṣaunda-** vb. A tr. ‘to extinguish’: 3S pres. ind. *niṣaṃme* 128.

nūvara- adj. ‘new’: GDSf *nuvara* 87.

nūvara-ysāta- adj. ‘new born’: GDSm *nūvara-ysā* 81.

nauka adv. ‘finely’: *nauka* 2 6 (2×) 7 10 12 14 17 18 22 24 39 40 41 48 50 51 52 53 59 62 71 92 106 126, *naukä* 20 26 30 34 46 55 57 60 61 64 68 78 87 90 91 103 105 107 113 122 (2×) 127.

P

paṃjalau n. ‘bell metal (Skt. *kāṃsa*)’: NS *paṃjalau* 125.

pajs- : **paha-** vb. B act. tr. ‘to cook, mature (Skt. *pac*, *śṛta*, *svinna*)’: 3S pres. ind. *paštā* 14 32; part. nec. *pāchaa-*: NSm *pāche* 5 20, *pāchai* 6 10 14 14 (P 2889) 18 24 25 26 27 27 (P 2889) 28 32 38 40 44 50 51 52 53 54 64 65 81 86 89 99 102 103 104 105 108 110 111 112 122 124 125 128, *pajsāñä* 43 85 124; NSf *pāchai* 11; NAPm *pajsāñä* 117; NAPf *pāche* 16; N *pāchai* 73 117 (2×).

pa’jsa- adj. ‘strong’: NSm *pe’jsä* 123; NSf *pa’jsa* 47, *pe’jsä* 127.

paṃjsa card. num ‘five (Skt. *pañca*)’: NA *paṃjsä* 45.

pat- : **pasta-** vb. B act. intr. (perf. intr.) ‘to fall’: 3S pres. ind. *pettä* 119.

pattev- **pattauda-** vb. ‘to toast, roast’: part. nec. *pattevāña-*: NS *pattevāñä* 28; ppp. *pattauda-*: NSm *pattaudä* 51 104 (2×) 117, *pattāḍä* 88; GDP *pattaudä* 95; NS *pattaudä* 117.

patrūṣā- n. ‘a medicament’: N *patrūṣä* 117, *patrūṣa* 117.

paḍā adv. ‘first’: *paḍā* 11.

padajs- : **padīya-** vb. B act. tr. (perf. tr.) ‘to burn’: ppp. *padīya-*: GDSm *padī* 13; NAPm *padīya* 48 91 97; GDPm *padīyāṃ* 126; N *padīya* 95.

padav- : ***paduta-** vb. B act. tr./ mid. intr. ‘to fumigate’: part. nec. *padvāña-*: NSm *padvāñä* 127.

padīm- vb. A mid. tr. (perf. tr.) ‘to make’: 3S pres. ind. *padīme* 60 76; part. nec. *padīmāña-*: NSm *padīmāñä* 12 14 22 48 55 88 90 115, *padīmāña* 4 13 127, *padīmāñä* 73 85 122; NS *padīmāñä* 121; NAPm *padīmāña* 72, *padīmāñä* 71, *padī* 127.

panam- : **panata-** vb. mid. intr. A (perf. intr.) ‘to rise’: 3S pres. ind. *paṇame* 74 76.

papalā- n. ‘long pepper (Skt. *kaṇā*, *kṛṣṇā*, *pippali*, *māgadhī*)’ [LW ← Skt. *pippali*]: NS *papala* 76.

***paysāa-** m. ‘a medicament (?)’: LS *paysāya* 28.

paysau n. ‘(?)’: NS *paysau* 119.

parigrahā- n. ‘a disease’: AS *parigrahä* 52, *parigrahä*: 48.

parkūn- vb. tr. ‘to sprinkle’: part. nec. *parkūnāña-* : NSm *parkūnāñä* 24 27 27 (P 2889) 32 50, *parkūnāñä* 10 36, *parkūnāña* 13, *parkūnāñä* 29 38; NSf *parkūnāña* 43, *parkūnāñä* 45; NAP *parkūnāñä* 26; N *parkūnāñä* 127.

pars- : **parya-** vb. B act. intr. (perf. intr.) ‘to escape; to pass (of time)’: ppp. *parya-*: ASm *parye* 5.

paś- vb. A act. tr. (perf. tr.) ‘to let go, release’: part. nec. *paśāña-*: NSm *paśāñä* 123; NAPf *paśāñä* 8.

paṣkāsaā- f. ‘swelling (of the stomach) (Skt. *ādhmāna*, *āhāna*)’: AS *paṣkāsa* 24, *paṣkāṣā* 11.

paskyāṣṭā adv. ‘back, again; afterwards’: *paskyāṣṭā* 99 117 128, *paskyāṣṭā* 6 8 22.

paḥer- vb. tr. ‘to moisten (Skt. *bhāvita*)’: part. nec. *paḥerāña-*: NSm *paḥerāñā* 19 21 (2×) 22 86 98 126, *paḥairāñā* 78, *piḥerāñā* 57; NAPm *paḥerāña* 2 42 47 59, *paḥerāñā* 30, *paḥerāñā* 33 41 61 62 68 92 117; NAP *paḥerāñā* 94.

pāa- m. ‘foot (Skt. *pāda*)’: NAP *pā* 28, *pvā* 68; GDP *pām* 28 29.

pātcā adv. ‘then, next’: *pātcā* 58 65 66 104 122 125, *pātca* 83.

pāri- f. ‘leaf’: NAP *perā* 88, *pirā* 29.

pā’sa- m. ‘pig (Skt. *vārāha*)’: GDS *pvā’sā* 108.

pāstāṃga- adj. ‘upside down’: NSm *pāstāṃgā* 8, *pāstumṅā* 85.

pī n. ‘fat (Skt. *medas*)’: NS *pī* 3 34 39 46 75 87 96 107.

pi’jsa adv. ‘strongly’: *pi’jsa* 85, *pe’jsā* 120.

piṇḍaa- m. ‘poultice (Skt. *piṇḍaka*)’ [LW]: NS *piṇḍai* 26, *piṇḍai* 31 39 40 62 64 110 124 126 128, *piṇḍai* 28 (2×) 44 45 46 54 (2×) 57 58 92 96 97 106 107 122, *peṇḍai* 5 93, *peṇḍai* 34 37 38 48 50 53 55 61 66 68 72 75 78 82 105 108 115 125, *peṇḍai* 3 4 (2×) 5 6 (2×) 11 (2×) 12 13 16 17 18 21 22 25 32 59 67 90 91 95 102 104 112, *peḍai* 33, *peṇḍe* 20, *paiṇḍai* 88 111 122, *paidai* 64 89 128, *paiṇḍe* 14 (P 2889), *piṇḍai-y-ūṃ jsā* (+ *-ūṃ jsā*) 73, *peṇḍai-t-ūṃ jsā* (+ *-ūṃ jsā*) 14; GDS *peṇḍai* 124; NAP *piṇḍā* 116, *piṇḍā* 77, *piṇḍā* 1 9 35 49 101, *piṇḍā* 72, *peṇḍā* 15, *peṇḍā* 84, *peṇḍā* 56.

piṇḍaka- m. ‘poultice (Skt. *piṇḍaka*)’ [LW]: NS *piṇḍakā* 60 128.

pirānaa- m. ‘worm grain (Skt. *krimi*)’: NAP *pīrāñā* 78.

pīrmāttama- superl. adj. ‘best’: NSm *pīrmāttam* 86.

pūṇvāña- vb. ‘to be filled’: part. nec. NSm *pūṇvāña* 85.

punarṇavā- f. ‘hogweed (Skt. *punarnavā*)’ [LW]: NS *punarṇava* 125.

pūra- m. ‘child’: AS *pūra* 76.

pūrāña- adj. ‘pert. to the womb (Skt. *yoni*)’: NAPm *pūrāña* 75.

purgā- f. ‘lees’: NS *purgā* 13, *purga* 27 32, *paurgā* 27 (P 2889); IAS *purgyāna* 28.

puṣṭa-ttākavi n. ‘a medicament’: NAP *puṣṭa-ttākavi* 85.

puṣṭara- m. ‘wild Himalayan cherry (Skt. *padmaka*)’: NS *puṣṭārā* 86, *puṣṭārā* 53.

puṣṭarāñā- n. ‘a medicament’: NS *puṣṭarāña* 24, *puṣṭirāña* 26.

pe’- m. ‘force; essence’: NS *pe’* 6.

paijā- f. ‘breast’: LP *paijvā* 122 (2×).

petta- m. ‘bile’ [LW ← Skt. *pitta*]: AS *petta* 10; IAS *pettana* 5.

pe’ma- m. ‘woollen cloth’: IAS *pe’ma jsä* 70.

pe’maka- m. ‘woollen cloth’: LS *pe’makañā* 4.

pe’sā’ra- ‘evening (Skt. *nākta, nīsā-mukha, sāyāhna*)’: GDS *pe’sā*’ 4 6 7 8, *pa’sā* 4, *pe’sā*’ 128.

pe’sva- adj. ‘steaming’: NSf *pe’sva* 99.

pau- m. ‘onion’: NS *pau* 3 31 43 58 75 104 124; GDS *pau* 61 96; IAS *pāna* 82.

pyan- : pyanda- vb. A/B act. tr. (perf. tr.) ‘to insert’: part. nec. *pyanāña-*: NSm *pyañāñä* 86, *pyañāñä* 85.

pyamtsa adv. ‘in front of’: *pyatsī* (+ -ī) 72.

prahāl- : pṛhīya- vb. tr. A (perf. tr.) ‘to open’: 3S pres. ind. *prahāje* 72.

prūyā- n. ‘a measure’: NS *prūye* 8 (2×); NAP *prūyi* 7, *prūye* 8 (2×).

ṛyamgā- n. ‘perfumed cherry (Skt. *priyaṅgu, śyāmā*)’ [LW ← Skt. *priyaṅgu*]: NS *ṛyamgā* 78.

PH

phaja- m. ‘glowing coals’: LS *phaji* 43 124.

phaja-vaha- ‘cooked in glowing coals’: NSm *phaja-vaha* 3, *phaji-vaha*’ 75.

phāna- m. ‘dust’: NS *phāṇ* 4.

phāhā- n. ‘cough (Skt. *kāsa*)’: AS *phāhā*’ 14 39, *phāhā:*’ 118, *phāhi*’ 42.

phiysgāna- m. ‘bladder (Skt. *vasti*)’: LS *phiysgāñā* 48 72, *phaiysgāñä* 75, *pheysgāñä* 70.

B

baka adv. ‘small, finely’: *bakä* 8.

bagala- m. ‘vessel’: NS *bagalä* 85, *bagala* 85; GDS *bagala* 85 (3×); LS *bagīla* 86.

bañ- : basta- vb. A act. tr. (perf. tr.) ‘to bind, tie (Skt. *bandh*)’: 3S pres. ind. *bañe* 117; 3S pres. opt. *bañī* (+ -ī) 124; part. nec. *bañāña-*: NSm *bañāñä* 3 14 (P2889) 47 102 124, *bañāñä* 67 68, *bañāñä* 11 13 23 24 25 26 27 28 29 36 39 41 42 43 44 45 50 51 52 53 54 55 57 58 59 60 61 62 64 68 69 73 75 80 81 83 87 92 94 106 107 108 109 110 111 115, *bañāñä* 122, *bāñāñä* 78; NSf *bañāñä* 119; NS *bañāñä* 121; NAPf *bañāñä* 11 79.

bana n. ‘?’: N *bana* 120.

banīja- m. ‘oak’: GDP *bañījāṇ* 48 126.

bam- vb. A tr. (perf. intr.) ‘to vomit (Skt. *ullekhana, chardana, chardī*)’: part. nec. *bamāña-*: NSm *baṃāñe* 120.

baysga- adj. ‘thick (Skt. *bahala*)’: NSm *baysgä* 113.

baysga adv. ‘thickly’: *baysgä* 115.

bara sīmjǎ- n. ‘jujube (Skt. *kola*, *badarī*)’ [LW + Kh.]: N *bara sīmje* 14 61, *bara sīje* 14 (P 2889).

balāttaka- m. ‘marking nut’ [LW ← Skt. *bhallātaka*]: NAP *balāttakye* 48.

basaka- m. ‘calf’: GDS *basqä* 81.

ba’hauyǎ- n. ‘a medicament’: NS *ba’hauya* 18, *ba’hauyä* 23, *ba’hau’yä* 94; IAS *ba’hau’ya jsä* 30.

bāga- m. ‘portion’ [LW ← Skt. *bhāga*]: NS *bāgä* 12 122; NAP *bāga* 12 (2×), *bāgä* 12 (2×).

bājana- m. ‘vessel (Skt. *pātra*)’: LS *bājinañä* 115, *bājinañä*: 113.

bājinaka- m. ‘vessel’: LS *bājinakañä* 71.

bāṇva şavarǎ- n. ‘a medicament’: N *bāṇva şavarä* 12 18, *baunva şavarä* 23 26.

bā m. ‘dill’: NSm *bā* 14 (P 2889) 115.

bā ttīman- nt. ‘dill (Skt. *śatapušpā*)’: NS *bā ttīma* 4, *bā ttīma* 14 71, *bā ttīm* 55.

bātaa- m. ‘new wine’: NAP *bātā* 107.

bāvā- f. ‘root (Skt. *mūla*)’: NS *bāva* 105, *bāvä* 103, *bāta* 69, *bāta* 105, *bātä* 105; AS *bāva* 14 32.

bāvi- f. ‘wind (*doşa*) (Skt. *vāta*)’: NS *bāva* 47; AS *bāva* 128; IAS *beva jsa* 4, *beva jsä* 8, *bāva* 14.

bi’gaja- adj. ‘of the kidney’: NSm *bi’gajä* 75.

bi’jāsīña- adj. ‘of the *bi’jāsana*’: NSf *bi’jāsīña* 76.

biṃjūha- m. ‘sparrow dung’: N *bijūha* 91.

bina- adj. ‘pert. to the wind’: ASf *bina* 20, *bīna* 124; GDPm *binām* 125.

bīnāj- : bīnāya- vb. tr. ‘to steep’: part. nec. *bīnājāña-*: NAP *bīnājāñä* 29; ppp. *bīnāya-*: NAP *bīnāyi* 72.

biṃdä prep. and postp. + GD ‘on’: prep. *biṃdä* 10 36 (2×), *biṃdai* (+ -ī) 24 29 43, *beṃdai* (+ -ī) 26, *bidai* (+ -ī) 13 27 32 38 45 50, *bede* (+ -ī) 27 (P 2889); postp. *biṃdä* 11 22 23 28 29 37 39 40 43 44 45 (2×) 51 54 55 69 78 81 83 87 92 124, *biṃdi* 94, *bidä* 19 50 85 86 98 100 124 128, *biṃdāştä* (+ -āştä) 37, *biṃdāştä* 46 49 82, *bidāştä* 35 93, *biṃdāştī* 31.

biṃdä adv. ‘thereon’: *biṃdä* 11.

bitcañ- vb. tr. ‘to break up’: part. nec. *bitcañāña-*: NSm *bitcañāñä* 124.

biysamj- vb. mid. tr. (perf. tr.) ‘to hold’: 3P pres. ind. *biysamjäre* 85; part. nec. *biysamjāña-*: NSm *biysamjāñä* 8.

bīysman- nt. ‘urine (Skt. *mūtra*)’: IAS *bīysma jsä* 22, *bīysmä jsa* 33.

birṣṭa- adj. ‘burst’: NS *birṣṭā* 81

biśa- adj. ‘all’; adv. ‘completely’: ‘all’ NSm *biśā* 99; NAPm *biśā* 24 26 46 48 64 71 85 107 112 117 120 125 (2×), *biśa* 14 42, *bīśī* 45, *biśi* 53 108; GDPm *biśūṃ* (+ *-ūṃ*) 8; ‘completely’ *biśā* 85. Adv. phrase *biśā vṛ* ‘everywhere’ 125.

bīśia- m. ‘buttermilk’: IAS *bīśīṇā* 114.

biśūña-/biśśūnia- adj. ‘various’: GDPm *biśūñāṃ* 1.

bisaa- adj. ‘dwelling; located; inside’: used as a mark of locative NSm *bīśai* 28 98, *bīse* 85; NAPm *bīśā* 52; N *bisā* 28.

bī’hā’yā- n. ‘a medicament’: NS *bī’hā’ya* 10.

bua’- m. ‘perfume (Skt. *purā*)’: NS *bū* 13, *bū*’ 22 31, *bu*’ 93. Phrase: see **śīya-**.

bu’jsā- f. ‘virtue’: NAP *bu’jsai* 128, *bve’jse* 8.

buḍāra- comp. adj. ‘bigger’: NSm *bāḍā* 62.

būnā- n. ‘?’: NS *būna* 121.

būri indefinite particle: *būri* 8, *huri* 45, *būre* 122.

būysīña- adj. ‘pert. to goat (Skt. *chāga*)’: NSm *būysīṇā* 36 37; IASm *buysīṇā* 44; NS *būysīṇā* 3 39 87, *būysīṇā* 46; GDS *būysīṇā* 13.

būśānaa- m. ‘perfume’: NS *būśānai* 8 (2×) 123.

būṣv- vb. tr. ‘to place’: part. nec. *būṣvāṇa-* : NSm *būṣvāṇā* 45.

būhanā- n. ‘nut grass (Skt. *musta*)’: N *būhana* 60, *būhane* 95 97.

byāra- m. ‘melon (Skt. *ervāruka*)’: NS *byārā* 120.

brrāṃgā- f. ‘thigh’: NAP *brrāṃgā* 78.

brūṣka- adj. ‘severe’: NAPf *brūṣkyā* 70.

brreha- m. ‘back (body part)’: GDS *brrehā:*’ 124; LS *brraha* 124.

M

makauṭa- adj. ‘closed’ [LW ← Skt. *mukula*]: NAPf *makauṭe* 4.

makṣ- vb. tr. ‘to rub’ [LW ← Pkt. < Skt. *mrakṣ*]: part. nec. *makṣā’ña-*: NSm *makṣāṇū* (+ *-ū jsä*) 65.

maṃgāra- adj. ‘old (Skt. *purāṇa*)’: NSm *maṃgārā* 7; GDSm *maṃgārā* 121, *maṃgāra* 28; ASm *maṃgārā* 54; IASm *maṃgārā* 27 28 32 47 79, *magāra* 27 (P 2889).

maysdara- m. ‘nipple’: LP *maysdārvā* 122.

mara adv. ‘here’: *ma* 60.

mahābumja- m. ‘liquorice plant (Skt. *madhuka*, *yaṣṭīmadhu*)’ [LW ← Skt. **mahābhūrja*]: NS *mahābumjä* 8, *mahābumji* 20, *mahābāmjä* 103 122 124, *mahābāmji* 91 99 102 104 106 111 128, *mahābaujä* 30 41, *mahābauji* 105; GDS *mahābāmji* 89.

mahā-midā- f. ‘Indian coral tree’ [LW ← Skt. *mahā-medā*]: NS *mahā-midä* 106.

mākṣia- m. ‘honey (Skt. *mākṣika*)’ [LW]: NS *mākṣī* 118; IAS *mākṣīna* 2 92, *mākṣīna* 21 42 59 83, *mākṣī’na* 41.

mācāṃgā- f. ‘a measure, dram’: NS *mācāṃgye* 7 8; NAP *mācāṃgye* 8 62 (3×).

māśa’kā- n. ‘jequirity (Skt. *śārṅgaṣṭā*)’: NS *māśa’kā* 117.

māṣa-parṇi- f. ‘wild black gram’ [LW]: N *māṣa-parṇä* 106.

māstaa- m. ‘buttermilk’ (Skt. *takra*): NS *māstai* 36 37.

mijejūna- adj. ‘*of red colour’: GDSf *mijejūna* 88.

mājṣai’- f. ‘woman’: GDP *mijṣām’* 75.

mijsāa- m. ‘marrow (Skt. *majjan*)’: NAP *mijsā* 39 107, *mījsā* 75, *mījsā* 61 76 108.

mijsāka- m. ‘kernel, marrow (Skt. *asthi*, *bīja*, *majjan*)’: NAP *mījsāka* 14 52, *mijsāka* 14 (P 2889) 26 27, *mījsāka* 27 (P 2889), *mījsākä* 52 91, *mījsākä* 51 52 95 97; IAP *mijsākām jsa* 8.

mijsākīnaa- adj. ‘from marrow or kernel’: NSm *mījsākīnai* 67; IAPm *mījsākīnai* 66.

midā- f. ‘a medicament’ [LW ← Skt. *medā*]: NS *mida* 106.

māsta- adj. ‘great’: NSm *mistä* 85; GDSm *mistye* 64.

mūdga-parṇi- f. ‘wild green gram (Skt. *mudga-parṇi*)’ [LW]: NS *mūdga-parṇä* 106.

mūr- vb. tr. (perf. tr.) ‘to rub; to crush’: part. nec. *mūrāṇa-*: NSm *mūrāṇä* 47 58 66; NS *mūrāṇä* 83; NAPm *mūrāṇä* 31 34 36 55 70 75 87 93 96 97, *mūrrāṇa* 95, *mūrāṇyä* 60.

mūrau n. ‘holy basil’: N *mūrau* 91.

mūlā- n. ‘Indian asparagus’: N *mūla* 82 83.

maittrā- f. ‘love’ [LW ← Skt. *maitrī*]: NS *maittrā* 74 76.

mūlaṣkīṇā- n. ‘a medicament’: NS *mūlaṣkīṇä* 91.

mau- m. ‘liquor (Skt. *mada*)’: NS *mau* 109 125; GDS *mau* 13 27 28 32, *mauva* 27 (P 2889) 94 121; IAS *mauna* 10 11 16 18 24 25 26 27 27 (P 2889) 47 52 93 124, *maunä* 32.

mauga- m. ‘bean’ [LW ← Skt. *maudga*]: NS *maugä* 38, *māmḡä* 20 21 44 122, *māḡä* 62.

myām adv. ‘in the middle’: *myām* 8.

myāna- m. ‘waist’: NS *myām* 71.

Y

yan- : **yiḍa-** vb. B act. or mid. tr. (perf. tr.) ‘to do’; + L ‘to put in’: 3S pres. ind. *īṃde* 71; part. nec. *tceraa-*: NSm *tcerai* 85 91 99, *tcirai* 6 100 106; NSf *tcerai* (+ *utcä* f.!) 99, *tcirā* (+ *kaṣā* m.!) 8; NAPm *tcerai* 6, *tcerā* 118 128, *tcirai* 8, *tcirā* 117, *tcirā* 99; NAPf *tcerai* 7; NS *tcerā* 117; N *tcerā* 28. Phrase: **śira yan-** ‘to do good’: 3S pres. ind. *śira īṃdä* 8, *śera īṃdä* 71.

yamaa- adj. ‘twin’ [LW ← Skt. *yamaka*]: IASm *yamai* 24 104, *yāmai* 123.

yauga- m. ‘prescription (Skt. *yoga*)’ [LW]: NS *yaugä* 7 86 (2×) 99; NAP *yauga* 1, *yaugä* 84 116.

yausā- f. ‘musk (Skt. *kastūrī*)’: NS *yausa* 8 (2×) 78.

ysamgara- adj. ‘old (Skt. *pravayas*)’: NSm *ysamgarä* 86.

ysambasta- m. ‘garlic (Skt. *laśuna*)’: NS *ysambaste* 91.

ysaramjsā- n. ‘safflower (Skt. *kurumbha* JP)’: NS *ysaramjsä* 13, *ysaramjsä* 88.

ysarūna- adj. ‘green’: NSm *ysarūṃ* 20 38 44 62 122.

ysā’ysa- m. ‘bile’: GDS *ysā’ysä* 94.

ysāluā- f. ‘Indian barberry (Skt. *dārvī*, *pīta-dāru*)’: NS *ysālva* 30 122, *ysvālva* 128.

ysīḍaa- adj. ‘yellow (Skt. *pīta*)’: NSm *ysīḍai* 98; NAPm *ysīḍā* 6 20 30 70 102 104 128.

ysīḍaurga- adj. ‘yellowish’: ASm *ysīḍaurgä* 5.

ysīra adv. ‘roughly’: *ysīra* 128.

ysīraka- m. ‘matter’: NS *ysīrakä* 98.

ysua- m. ‘pus (Skt. *pāka*)’: AS *ysū* 87.

ysūn- : **ysva-** vb. act. ‘to strain’: part. nec. *ysūnāñā-*: NSm *ysūñāñā* 6, *ysūñāñā* 7 8 (2×) 99 122 128, *ysūñāñä* 117, *ysaunvañä* 126; NAPm *ysūyāñā* 109, *ysūñāñä* 71 120.

ysai adv. ‘early, in the morning (Skt. *pūrvāhṇa*, *prātar*)’: *ysai* 127; reduplicated *ysai ysai* 4 6 (2×) 127.

ysair-bana- m. ‘region near the heart’: LP *ysair-banvā* 122.

ysvaurga- adj. ‘suppurating’: GDSm *ysūrgä* 34; ASf *ysvaurgä* 87.

R/RR

ra coordinating conj. ‘and, also’: *ra* 7. Phrase: see **damdä**.

***rran-** vb. tr. ‘to scrape’: part. nec. *ranāñā-*: NSm *rañāñä* 127.

rranīka- m. ‘skin irritation’: NAP *ranīkā* 85, *rranīka-ṃ jsä* (+ *-ṃ jsä*) 99; GDP *rranīkāṃ* 100, *rranīkāṃ* 98, *ranīkāṃ* 86 (2×).

rranūška- m. ‘scrapings’: IAS *ranūškyänä* 127; NAP *rranūškä* 104, *ranūškä* 13 52.
raysa- m. ‘juice’ [LW ← Skt. *rasa*]: IAS *raysäna* 91.
raṣabhaka- m. ‘a medicament (Skt. *ṛṣabhaka*)’ [LW]: NS *raṣabhakä* 105, *raṣabhakä* 106.
rahi’ piṇā n. ‘a medicament’: N *rahi’ piṇā* 94.
rrājaa- adj. ‘pertaining to the plain (Skt. *romaka*)’: NSf *rājā* 10 26, *rrājā* 12 52 81; IASf *rrāji* 53, *rrāje* 54.
rrāha- m. ‘pain’: NS *rrāhā’* 7, *rāhā’* 128, *rāha’* 4 5 6; AS *rrāhā’* 8, *rāhā’* 2 124, *rrāhi’* 121.
 Phrase: **kamala- rāha-** ‘headache (Skt. *śiro-ṛti*)’: AS *kamala rrāhā’* 124, *kaṃala rrāhā’* 8.
rrīysū ‘rice (Skt. *tanḍula, śāli*)’: N *rīysū* 20 38, *rrīysū* 40 112, *rrīysva* 46. *rrvīysva* 57.
rīśā’- n. ‘appetite (Skt. *rocanaḥ, ruci-pradas*)’: AS *raiśā’* 60.
rrūna- m. ‘oil (Skt. *ghṛta*)’: NS *rrūṃ* 99 107 125, *rūṃ* 7 8 (4×) 65 67 85 (2×) 86 93 99 100 109 115 (2×) 118 125, *ruṃ* 8 (2×); IAS *rūṃna* 20 27 28 29 32 33 34 47 (2×) 50 59 60 64 66 71 73 79 81 87 94 102 104 106 122 127, *rūṃnä* 24 31 62, *rrūṃnä* 86, *rrūṃna* 123, *rruṃna* 27 (P 2889), *ruṃna* 58, *rūna* 124; LS *rūṃṇa* 69, *rūṇya* 80.
rrūnaa- ‘Indian madder (Skt. *mañjiṣṭhā*)’: NS *rūnai* 41 46 92.
rrūnā-ttīman- nt. ‘Indian madder seed’: NS *rrūnā-ttīm* 47.
rrūvā- n. ‘copper’: N *rūva* 46.
rūsāda- m. ‘barley flour (Skt. *yava-kalke*)’: NS *rūsādä* 13 19.
raijsaa- adj. ‘sharp (Skt. *tīkṣṇa*)’: NAPf *raijsai* 128.
rraustara- m. ‘mudar (tree) (Skt. *arka*)’: NS *raustarä* 34 39 46, *rrustarä* 87 94; GDS *rrustiri* 44, *rrustirä* 48.
rraustarānā- f. ‘mudar grain’: NAP *rruštārānā* 99, *rrustirānā* 119.

L

lakānā- f. ‘basin’: NS *lakāna* 85.
laṃgara- m. ‘groundsel (Skt. *rāsnā*)’: GDS *laṃgāra* 103, *laṃgara* 105.
lavamga- m. ‘cloves’ [LW ← Skt. *lavaṅga*]: NS *lavamgä* 120, *lavagä* 8; GDS *lavamgä* 8.
lākṣā- n. ‘lac (Skt. *lākṣā*)’ [LW]: NS *lākṣä* 64.
lūttā- f. ‘spider’ [LW ← Skt. *lūtā* JP]: GDS *lūttä* 94.

V

va¹ postpos. + GD or encl. pers. pron. (OKh. *vaska*) ‘on account of, for’: *va* 1 4 5 6 7 8 15 16 18 62 63 *63 77 84 85 86 101 110 128, *vq* 111.

va² adv. ‘there; in that case’: *va* 5 6 7 8 (2×) 28 45 47 64 99 (2×) 120 122.

va³ part. indef.: *va* 117.

vaṇḍaṅgā- n. ‘embelia ribes’ [LW ←Skt. *viḍaṅgā*]: NS *vaṇḍaṅgā* 78.

vara¹ adv. ‘on it, on there, on them’: *vara* 41 71 78 108 113 115, *varā* 71 73 110.

vara² prep. + A ‘on’: *varā* 68, *varam* (+ -ṃ).

valaka- adj. ‘young (Skt. *kaniṣṭha*)’: GDSm *valakyā* 64.

vaṣṭ- : **vistāta-** vb. A act. intr. (perf. intr.) ‘to remain’ (Skt. *sthā*): 3S pres. ind. *vaṣṭe* 4.

vaṣṭā post. + A ‘throughout’: *vaṣṭā* 6 45.

vasīya- m. ‘a measure’ [LW]: NS *vasī* 6 7 120; NAP *vasīya* 6 7.

vasūj- vb. A act. tr. (perf. tr.) ‘to purify’: 3Sm pres. ind. *vasūje* 20 57, *vasūje* 41 43 60 124; 3Pm pres. ind. *vasūsīmdā* 45.

vasūjāka- m. ‘a purifier’: NS *vasūjākā* 58.

vasta- m. ‘bladder’ [LW ← Skt. *vasti*]: LS *vastaṅga* 52.

vasva- adj. ‘pure’: NSm *vasve* 66 100; NS *vasva* 21.

vahīys- : **vahāṣṭa-** vb. B mid. intr. (perf. intr.) ‘to descend’: 3P pres. ind. *vahaiysāre* 64.

vā enclitic conj. ‘but, however, and; instead’: *vā* 8 9 15 35 49 56 63 65 77 84 94 98 101 128.

Phrase: see **ā vā** ‘or alternatively’ 19 21 47 64 85 91 94 (2×) 114.

vāṭṭa-pitta- m. ‘wind-bile’ [LW ←Skt. *vāta-pitta*]: AS *vāṭṭa-pittā* 61.

vāṭṭaṣṭhīlā- f. ‘wind tumour’ [LW ←Skt. *vātāṣṭhīlā*]: NAP *vāṭṭaṣṭhīlai* 48.

vāmīnaa- adj. ‘pert. to almond (Skt. *vātāma*)’ [LW + -īnaa-]: NS *vāmīnai* 8.

vāmīrām n. ‘a medicament’: NS *vāmīrām* 24 78.

vāśarūna- m. ‘rheumatism (Skt. *vāta-rakta, anila-rakta*)’ [LW]: AS *vāśarūṃ* 106 114, *vāśārūṃ* 104 107 109 113 115, *vāśūrūṃ* 105; GDS *vāśārūṃ* 101 102 103 110 111; NAP *vāśārūṅa* 112.

vī postpos. + A or GD ‘on, to’: + A *vī* 6 122, *vī* 125; + GD *vī* 4 42 47 (2×) (?) 48 52 53 55 60 103, *vī* 102. **Phrase:** see **biśa-**, **hera vī**.

vījseṣ- : **vījśiṣṭa-** vb. B mid. tr. (perf. tr.) ‘to see’: 3S pres. ind. *vījseṣḍe* 4, *vījaiṣḍe* 5; 3S pres. opt. *vījśyā* 8.

viña adv. ‘now’: *viña* 1 116.

vīnaa- m. ‘aching part’: GDP *vīnām* 128.

vīnā- f. ‘pain (Skt. *ruj*, *śūla*)’ [LW ← Skt. *vedanā*]: NAP *vīne* 106, *vīne* 27 115, *vīnā* 47 70 122, *vīna* 128, *vīna* 8 108 110 113 114 122 (2×), *vīnai* 72.

vīnau prep. + GD ‘without’: *vīnau* 7, *vīna* 62.

vimath- vb. tr. ‘to knead’ [LW ← Skt. *vimath*]: part. nec. *vimathāñā-*: NSm *vimathāñā* 4, *vamathāñā* 17 128, *vamathauñā* 54.

vi’yaji n. ‘a medicament’: NS *vi’yaji* 10 117, *vi’yajā* 47.

vīra- m. ‘root’: NAP *virā* 91.

virana- m. ‘wound’ [LW ← Skt. *vraṇa*]: GDS *viram* 87; GDP *viranām* 34, *vīranām* 92.

vīst- : vistāta- vb. A act. tr. (perf. tr.) ‘to place; to stanch, stop’: 3S pres. ind. *vīstā* 79, *vīste* 52 53 54 81; part. nec. *vīstāñā-*: NSm *vīstāñā* 72 85 111 122; NSf *vīstāñā* 85; NAPm *vīstāñā* 3, *vīstāñā* 2 4 5 13 20 51 87 128, *vīstāñā* 57 68 102 122, *viśtāñā* 10 25 27 46, *vīstāñā* 14 22 (2×) 24 26 30 31 32 34 38 39 40 41 42 44 47 48 52 53 55 58 59 61 64 70 71 75 81 88 91 92 96 97 107 120 124 125, *vīstauñā* 95; NAP *vīstāñā* 18 94, *vīstāñā* 78, *viśtāñā* 23.

vihīlaa- m. ‘belleric myrobalan (Skt. *vibhītaka*, *vibhītakī*, *akṣa*, etc.)’ [LW]: NS *vihīlai* 2 5 42 68, *vihīle* 7.

Ś/ŚŚ

śaṃdā- f. ‘ground’: GDS *śaṃdai* 85.

śaśvāna- m. ‘mustard (Skt. (*śveta*-)*sarṣapa*, *siddhārtha*)’: NS *śaśvām* 14 14 (P 2889) 125.

śāva- adj. ‘pert. to copper (Skt. *tāmra*, *śulva*)’: LSm *śāvīñā* 71.

śikara- m. ‘sugar (Skt. *śarkarā*, *sitā*)’ [LW ← Pkt. < Skt. *śarkarā*]: NS *śikarā* 8 43 45 57 58 59, *śikara* 8, *śakarā* 36 38.

śiṃga- m. ‘a measure, ounce (Skt. *prastha*)’ [LW ← Chin. 升 (shēng)]: NS *śiṃgā* 8 85 99 (4×); NAP *śiṃga* 85 (3×), *śigā* 128.

śīmjā- n. ‘jujube (Skt. *kola*, *bādara*)’: GDS *śīmjā* 52, *śīji* 92. See also **bara śīmjā-**.

śīya- adj. ‘white (Skt. *pāṇḍu*, *śukla*, *sita*)’: NSm *śī* 14 14 (P 2889) 31 42 43 58 104, *śī* 124; GDSm *śī* 96; IASm *śī* 82; NSf *śīya* 11; NAPf *śīya* 11; NS *śīya* 94. Phrase: **śīya- bua’-** ‘white perfume (Skt. *kunda*, *kaṭabhī-śvetā*)’: NSm *śī bū* 13, *śī bū* 31, *śī bū* 93.

śira- adj. ‘good’. Phrase: see **yan-**.

śīlājattā- n. ‘molten ore (Skt. *śīlājatu*)’ [LW]: NS *śīlājattā* 37, *śīlājattā* 42, *śīlājatti* 113.

śīlīṣuma- m. ‘phlegm (*doṣa*)’ [LW ← Pkt. < Skt. *śleṣman*]: IAS *śīlīṣumaṃ jsa* 14, *śīlīṣumaṃ jsi* 6.

śśūjāta- rec. pron. ‘one another’: IASm *śūjina* 85.

še' adj. 'second': NSm *še'* 86, *še* 99; GDSm *še'ye* 123.

šau card. num. 'one': N *šau* 6 7 8 (5×) 12 72 (2×) 99 (4×) 118 120 122, *šā* 6 8 (3×); A *šau* 8, f *šā* 11; reduplicated 'every single one, each one': N *šau šau* 128, *šā šā* 6 7 128.

šaul- vb. A tr. 'to suck dry': 3S pres. ind. *šau'le* 87.

štāka- adj. 'necessary': NAPm *štākā* 33 85 103 104 105 106 108 115 117 128, *štāḳā* 112 125, *štāka* 14 (P 2889).

šlišma- m. 'phlegm (*doṣa*)' [LW ← Skt. *śleṣman*]: AS (+ -ī) *šlišmī* 10.

šva' adj. 'mid, half': NSm *šva'* 128. *šva'*- *haḍāa-* m. 'midday': AS *šva' haḍā* 5; *šva haḍā* 5.

švāña adj. '?': NAPm *švāña* 25.

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şamga- m. 'a measure': NS *şamgä* 99.

şala- m. 'zedoary (Skt. *şadī* JP)': NS *şala* 125.

şarā- n. 'seed': NAP *şara* 48, *şarā* 72.

şavā- f. 'night': AS *şavā* 11.

şī' dem. pron. 'this': NSm *şī'* 3 4 5 6 (3×) 8 11 (2×) 16 22 26 28 (2×) 32 33 34 38 39 45 46 53 54 (2×) 57 58 59 60 64 66 67 72 75 78 85 (4×) 91 93 94 95 96 97 98 99 104 106 107 108 112 117 (3×) 122 124 125 126 127, *şe'* 4 17 61, *şa'* 5 127, *şai'* (+ -ī) 4 6 7 41 64 68 72 74 122; GDSm *ttye* 85 123 124; IASm *ttye* 102 104 127; NSf *şī'* 99; IASf *ttye* 128; NAPm *ttā* 85 102, *tti* 9 15 22 35 49 56 58 71 77 84 101 104 120 122 128, *ttī* 63, *tta* 26 14 (P 2889), *tta tta* 120; GDPm *ttyāṃ* 60 85; IAPm *ttyau* 65; NAPf *tti* 8, *ttai* (+ -ī) 128; IAPf *ttyau* 108; *tvī tvī* 72.

şīka- m. 'child': NS *şīkā* 117; GDS *şīkā* 64.

şūa- m. 'horn (Skt. *vişāṇa*)': NS *şū* 127; GDS *şū* 13.

***şūni-** f. 'loin': GDS *şūñā* 121; LP *şūñyā* 121.

şşaiş- vb. B act. intr. 'to cling': 3P pres. ind. *şşaidä* 6 8, *şaidä* 128.

şpaijaa- m. 'spleen': GDS *şpaijai* 49 50 51 52, *şpai'jai* 53 54 55 (2×).

şṭ- vb. A mid. intr. (perf. intr.) 'to stand; be': 3P pres. ind. *şṭāre* 6.

şvīda- m. 'milk (Skt. *kṣīra*; 'human milk' *stanya*)': NS *şvīdä* 125; IAS *şvīdana* 5 19 38 40, *şvīdāna* 100 122, *şvīdanä* 72 88, *şvīdanä* 90, *şvīdānā* 98, *şvīdāna* 44 103, *şvīdina* 20, *şvī'dana* 110, *şvī'danä* 111, *şvī'da jsä* 105, *şvīdi jsi* 50, *şvīdä* 106.

S

saṃkhal- : **saṃkhalsta-** vb. B act. tr. ‘to smear (Skt. *pradeha*, *pralip*, *lepa*)’: part. nec. *saṃkhilyāñā-*: NSm *saṃkhalyāñā* 80 86 100 113 114 114, *saṃkhalyāñā* 98; NS *saṃkhilyāñā* 71. NAPm *saṃkhalyāñā* 115.

sachā- f. ‘sida (Skt. *balā*)’: NS *saḥa* 105, *sacha* 11; GDS *sachi* 88.

sadalūna- m. ‘rock salt (Skt. *saindhava*)’ [LW ← Pkt. < Skt. *sindhu-lavaṇa*]: NS *sadalūṃ* 24 58 91, *sadälūṃ* 29, *saṃdalūṃ* 115, *sidalūṃ* 64 71.

saṃ adv. ‘precisely, just’: *saṃ* 71.

saṃdvāta- m. ‘combination (of all three *doṣas*)’ [LW ← Gāndh. < Skt. *saṃnipāta-*]: IAS *saṃdvena* 2, *saṃdveṇna* 20 104.

saṃna- m. ‘dung (Skt. *viṭka*, *viṣ*, *śakṛt*)’: NS *saṃnā* 81 102, *saṃna* 109; IAP *saṃñyau jsa* 85.

saṃbhārā- n. ‘support (of the intestines)’ [LW ← Skt. *saṃbhāra*]: NAP *saṃbhāra* 68, *saṃbhārā* 64 68 73.

sarb- : **sata-** vb. A act. intr. (perf. intr.) ‘to rise’: 3P pres. ind. *sarbīṃdā* 85.

salīcā n. ‘pea (Skt. *satīna*)’: N *salīcā* 85.

saha- m. ‘hoof’: GDS *sahā* 52.

sāḍa- adj. ‘cold (Skt. *śīta*)’: NAPf *sāḍa* 17; NAP *sāḍā* 68.

sālye ‘?’: GDS *sālye* 16.

sā particle introducing direct speech: *sā* 6.

sijsāñā- n. ‘a medicament’: N *sijsāñā* 122.

siṃjsūrā- n. ‘a medicament’: N *siṃjsūrā* 78.

sira- m. ‘a measure, ounce’: NS *sirā* 8, *serā* 128.

sūjs- : **sūta-** vb. B act. intr. ‘to burn’: 3S pres. ind. *sūštā* 85.

sūdā-kṣīra- m. ‘milkhedge (Skt. *snuhī*)’ [LW ← Skt. *sudhā-kṣīra-*]: NS *sūdā-kṣīrā* 48.

sumam n. ‘powder; nutmeg (Skt. *mālatī*)’: NS *sūmaṃ* 90 91, *sūmaṃ* 42.

sutta- m. ‘verjuice (Skt. *śukta*)’: NS *suttā* 107; IAS *suttāna* 65, *sauttāna* 64 94, *sauttana* 121; LS *sūttauñā* 83.

sauthara spyaka- m. ‘fulsee flower (Skt. *dhātakī*)’: NS *sauthara spyakā* 4.

saunūṣkā- n. ‘a medicament’: N *saunūṣkā* 100.

saunai phārā- n. ‘a medicament’: N *saunai phārā* 73.

sauy- vb. tr. ‘to rub’: part nec. *sauyāñā-*: NSf *sauyāñā* 11.

sauhīya rrauṭā- ‘a medicament’: N *sauhīya rrauṭā* 70, *sauhīya rrauṭā* 71.

stana-vidrradhi- f. ‘mammary abscesses’ [LW ← Skt. *stana-vidradhi*]: NAP *stana-vidrradhi* *89.

starr- : **starrda-** vb. tr. ‘to strew’: part. nec. *starāñā-*: NSm *starāñā* 124.

stāṃga- adj. ‘swollen’: ASm *stāṃgā* 88.

stūra- adj. ‘large’: NS *stūra* 60.

styūda- adj. ‘firm (Skt. *kathina*)’: ASm *styūdā* 95, *styūda* 33; GDSf *styūdi* 85; ASn as adv. ‘firmly’: *styūdā* 85.

straha adv. ‘stiffly’: *straha* **4.

strīs- : **strīya-** vb. B act. intr. (perf. intr.) ‘to become stiff (Skt. *stambh*)’: 3Sm pres. ind. *strīstā* 41.

strāha- adj. ‘stiff’: NAPf *streha* 127.

spajūṃ n. ‘sochal salt (Skt. *sauvarcala*)’: NS *spajūṃ* 50, *spajū* 62, *spaju* 55.

sparkā- f. ‘fenugreek’ [LW ← Skt. *sprṅkā*]: NS *sperka* 118.

spyaa- m. ‘flower (Skt. *puṣpa*)’: NS *spye* 42; NAP *spye* 6 20 30 70 102 104 122 128. See also **hajārnā spyaa-**.

svaṃna-gīraa- m. ‘red ochre (Skt. *kāñcana-gairika*)’ [LW ← *suvarṇa-gairika*]: NS *svaṃna-gīrai* 33 96.

svāmilā- n. ‘shoulder (Skt. *aṃsa*)’: GDP *svāmilau* 122.

H

hacāna- m. ‘thatch (Skt. *kāśa*)’: IAP *hacānyau jsā* 85.

haḍāa- m. ‘day’: GDS *haḍai* 123; NAP *haḍā* 6 45. See also *śva’-*.

haṃgā- n. ‘bladder sorrel (Skt. *amlavetasa*)’: NS *haṃga* 26 41 52 108.

hajārnā spyaa- m. ‘a type of flower’: NAP *hajārnā spye* 54.

hatsuta- vb. intr. ‘to come out, pass through’: 3P pres. ind. *hatsīṃdā* 120.

haṃthraj- : **haṃthriya-** vb. A/B act. tr. (perf. tr.) ‘to squeeze’: part. nec. *haṃthrajāñā-*: NAPm *haṃthrrajāñā* 120.

hanājā- n. ‘?’: N *hanājā* 100.

haṃbāa- ‘amount’: NS *haṃbāyi* (+ *-ī*) 120.

haṃbusana- adj. ‘suitable’: NSm *haṃbūsaṃ* 125.

haṃbrāñ- vb. A tr. ‘to heal’: 3S pres. ind. *haṃbrrauñe* 87; nom. ag. : NSm *haṃbrrauñākā* 92.

haṃbrrīh- vb. B mid. tr. ‘to mix (Skt. *yu, saṃyuj*)’: 3S pres. *haṃbirtte* ind. 100; part. nec. *haṃbrrīhāñā-*: NSm *haṃbrrīhāñā* 25 39 85; NAPm *haṃbrrīhāñā* 22 37 (m.?) 122 125.

haṃbva’- m. ‘fester, ulcer’: NAP *haṃbva’* 89 90, *habva* 91.

haṃtsä adv. ‘together’: *haṃtsä* 8 (2×) 23 31 36 37 51 60 66 75 95 96 97 99 100 (2×) 102 104 109 125, *hatsä* 12 13 82 115.

haṃdana adv. ‘inside’: *haṃdāna* 98.

haṃdev- vb. tr. A ‘to ripen’: 3S pres. ind. *haṃdāve* 88, *haṃdeve* 91 95.

ham- : **hamya-** vb. A mid. intr. ‘to become, occur, arise’: 3S pres. ind. *hame* 6, *haṃe* 4 5 7 8 72 113, *haṃa* 6, *haṃi* 100, *hami* 90; 3P pres. ind. *hamāre* 5, *haṃāre* 4 6 128 (2×), *haṃāṃde* 68; 3S pres. subj. *haṃāve* 62 128.

hama- adj. ‘same’: IAPm *haṃyau* 65.

hamaṃga adv. ‘equally’: *hamaṃga* 3 5 71, *haṃaṃga* 2 87, *hamaṃgä* 18 20 25 30 31 32 34 38 39 40 48 51 55 57 68 75 81 88 90 91 94 96 102 104 113 122 124, *haṃaṃgä* 10 14 22 23 24 33 42 44 46 52 53 58 (2×) 59 61 64 70 78 92 95 97 103 105 106 108 111 112 115 117 120 125 (3×), *haṃagä* 13 26 27 41 47, *hamaga* 14 (P 2889), *haṃaṃga* *4.

hamata- emphatic refl. pron. ‘(one)self’: NSm *hami* 90.

hama-ysāta- adj. ‘uniform’: NSf *hama-ysā* 45, *haṃa-ysā* 8.

hamara- m. ‘joint (Skt. *saṃdhi*)’: NAP *humari* 85; LP *hamarvā* 111, *haṃarvā* 105 107 108, *haṃarrvā* 109 112, *haṃirvā* 106 (2×), *hamirvā* 110.

hamāka- m. ‘bowl’: NS *haṃākä* 8; NAP *haṃākä* 8.

hamārñai phaurā- n. ‘a medicament’: N *haṃārñai phaura* 12.

haysgā- f. ‘nostril (Skt. *nāvana*)’: LP *haysgvā* 8, *haysgvā* 127.

haryāsa- adj. ‘black (Skt. *asita, kṛṣṇa*)’: NSf *haryāsa* 11; IASm *haryāsä* 8.

hars- vb. B act. intr. (perf. intr.) ‘to remain’: 3S pres. ind. *harstā* 6 7 8 (2×) 99; 3S pres. opt. *harśä* 99.

halīraa- m. ‘chebulic myrobalan (Skt. *harītakī, pathya, abhaya*) [LW ← Skt. *harītakī*]: NS *halīrai* 2 5 7 22 42 68; GDS *halīrai* 10; NAP *halīrā* 62.

halaidrā- f. ‘turmeric (Skt. *niśā, haridrā*)’ [LW←Skt. *haridrā*]: NS *halaidrā* 42 43 57 107.

haśa- m. ‘swelling (Skt. *śoṃha*)’: AS *haśä* 12 13 14 20 22 23 24 26 27 31 32 33 38 39 48 90, *haśä* 128; GDS *haśi* 15 30, *haśä* 19 21 23 25 34, *haśa* 16 18; NAP *haśä* 91.

haṣṭā card. num. ‘eight’: NA *haṣṭā* 127.

hasv- vb. act. intr. A/B ‘to swell’: 3P pres. ind. *hasvīṃdä* 28 68 73.

hasvā- f. ‘swelling’: NAP *hasve* 17, *hasvai* 28 29 104 126, *hasvā* 71.

***hahvah-** vb. tr. ‘to hash’: part. nec. *hahvāña-*: NS *hahvāña* 83, *hahvāña* 82.

hā directional particle: *hā* 4 6 (2×) 8 17 22 (2×) 25 32 36 45 54 64 67 72 85 (2×) 99 100 117 (2×) 118 128; *hā* 4 7 128.

hāda conj. ‘but, nevertheless’: *hāda* 6; *hāde* 6.

hāna- m. ‘vessel’: LS *hāña* 8, *hāña* 99, *hauña* 99, *hāñāṣṭā* (+ *-āṣṭā*) 128.

hānā- f. ‘eyelids’: NAP *hāne* 4, *hauni* 6, *haune* 128.

hāma- adj. ‘uncooked, raw (Skt. *āma*)’: ASf *hāma* 14, *huma* 32; NAPf *hāma* 11.

hāmaa- m. ‘wheat flour (Skt. *kaṇikā*)’: NS *hāmai* 10 12 17 24 25 26 54 66 88 93 102 104 107 115 117 124 128, *hāmai* 103, *haumai* 4.

hālaa- m. ‘half’: NS *hālai* 8 (2×) 85, *hālā* 62.

hīnaā- f. ‘chaste tree (Skt. *surasā*)’: NS *hīnā* 14, *hīnā* (P 2889).

hīvia- ‘one’s own’: used as a mark of genitive NSm *hīya* 48, *hīvī* 48 81 85 126; NAPm *hīya* 13 52, *hīyā* 104; NSf *hīya* 13 27 32; IASf *hīye* 19 28 61 94; NAPf *hīye* 96 120; NAP *hīya* 48 72, *hīye* 29.

hīya- ppp. ‘poured’: NSm *hīya* 33.

hāra- m ‘stuff’: NS *herä* 85.

hīśa’ n. ‘a medicament’: NS *hīśa’* 36; GDS *hīśa’* 104.

hīysamau n. ‘coriander (Skt. *dhānyāka*)’: NS *hīysāmau* 107.

hu’ga- adj. ‘soft’: NSm *hu’gä* 6 127, *hau’gä* 55; NS *hu’gä* 121.

hu’galaka- adj. ‘soft’: NSm *hu’galakä* 4.

hūñi- f. ‘blood (Skt. *asra*, *rakta*, *śoṇita*)’: NS *hūñä* *78; AS *hūña* *79 81 124, *hūñä* 20; GDS *hūña* 5 128.

hūraṣṭā- n. ‘orrisroot (Skt. *paṣkara*)’: NS *hūraṣṭä* 14, *huraṣṭä* 14 (P 2889), *hūraṣṭi* 26.

hūṣā- m. ‘groin, thigh-joint (Skt. *vankṣaṇa* JP)’: LS *hūṣya* 66 67.

huṣka- adj. ‘dry (Skt. *śuṣka*)’: NAPm *huṣka* 87, *huṣkä* 57, *hauṣka* 3 34 41 124, *hauṣkä* 33 46; NAPf *huṣkyi* 16 18 25 27, *huṣkyä* 79, *huṣkyä* 12 24 26 32, *hauṣkyä* 27 (P 2889) 117; N *huṣka* 91, *hauṣka* 127.

haikā- f. ‘hiccough (Skt. *hikkā*)’ [LW]: NS *haikä* 127.

hena-, **hemjā-** adj. ‘red (Skt. *aruṇa*, *rakta*)’: NSm *hainai* 40 64; ASm *heji* 23, *himja* 39, *haijā* 24 128; GDSm *hemje* 19 21 31; NAPm *hinā* 94; NAPf *hemja* 128, *hemjā* 5.

hera ‘thing’: *hera* 6.

hera vī adv. ‘really’: *hera vī* 120.

hauji ‘?’: *hauji* 117.

hauda card. num. ‘seven’: NA *hauda* 7 127.

hva adv. ‘separately’: reduplicated *hva hva* 1.

hvañ- vb. A mid. intr. (= pass.) (perf. tr.) ‘to be called; to be explained’: pres. ind. 3P *hvañāre* 1, *hvañāre* 116.

hva’nd- m. ‘man (Skt. *nara*)’: GDS *hvaṇḍe* 64.

hvar- : **hvaḍa-** vb. **B** act. tr. (perf. tr.) ‘to eat (Skt. *ad*, *līḍha*, *lih*)’: part. nec. *hveraa-* : N *hverai* 117.

hvā’ñ- vb. A tr. ‘to make dry (Skt. *viśoṣaṇa*)’: part. nec. *hvā’ñāña-*: NSm *hvā’ñāñā* 86, *hvā’ñāñā* 22.

hvīya’- adj. ‘human’: IASm *hvī* 72 88 100, *hvī’* 90 98, *hvī’* 111, *hvī’* 103.

BIBLIOGRAPHY

Primary sources

Critical editions, translation, and manuscripts

- Bailey, H. W. 1938. *Codices Khotanenses: India Office Library Ch. ii 002, Ch. ii 003, Ch. 00274 reproduced in facsimile with an introduction*, Copenhagen.
- Bailey, H. W. 1951. *Khotanese Buddhist Texts*. London: Taylor's Foreign Press.
- Bailey, H. W. 1962. 'The preface to the Siddhasāra-Śāstra'. In W.B. Henning and E. Yarshater (eds.): *A Locust's Leg: Studies in Honour of S. H. Taqizadeh*, 31-38.
- Bailey, H. W. 1969. *Khotanese texts, I-III*. Cambridge: Cambridge University press.
- Bhishagratna, K. K. L. (transl.) 1907-1916. *An English translation of the Sushruta Samhita based on original Sanskrit text*. 3 vols. Calcutta.
- Bloomfield, M. 1897. *Hymns of the Atharva-veda together with extracts from the ritual books and the commentaries*. Oxford: Clarendon Press.
- Bloomfield, M. 1899. *The Atharvaveda*. Berlin, Boston: De Gruyter.
- Broomhead, J. W. 1962. *A textual edition of the British Hoernle, Stein and Weber Kuchean manuscripts with transliteration, translation, grammatical commentary and vocabulary*. Cambridge: University Library.
- Brough, J. 1962. *The Gāndhārī Dharmapada*. London: Oxford University Press.
- Canevascini, G. 1993. *The Khotanese Saṅghātasūtra. A critical edition*. Wiesbaden: Reichert.
- Carling, G. 2003a. 'Fragments bilingues du Yogaśataka. Révision commentée de l'édition de Jean Filliozat'. In G. Pinault, K. T. Schmidt, and W. Winter (eds.): *Tocharian and Indo-European Studies* 10. Copenhagen: Reitzel, 37-68.
- Carling, G. 2003b. 'New look at the Tocharian B medical manuscript IOL Toch 306 (Stein Ch.00316. a2) of the British Library - Oriental and India Office Collections'. *Historische Sprachforschung* 116.1, 75-95.
- Chen Ming 陳明 2005. *Dunhuang chutu hu yu yi dian 'Qipo shu' yanjiu* 敦煌出土胡語醫典 <<耆婆書>> 研究 = *A study on Sanskrit text of Jivaka-pustaka from Dunhuang*. Taipei 臺北: Xin Wenfeng Chuban Gongsi 新文豐出版公司.

- Dresden, M. J. 1955. *The Jātakastava or 'Praise of the Buddha's Former Births'. Indo-Scythian (Khotanese) text, English translation, grammatical notes, and glossaries*. Philadelphia: The American Philosophical Society.
- Elizarenkova, T. Я. (ed.) 1999. *Rigveda. Izdatelstvo vtoroe ispravlennoe*. 3 vols. Moskow: Nauka.
- Emmerick, R. E. 1968c. *The Book of Zambasta. A Khotanese poem on Buddhism*. London: Oxford University Press.
- Emmerick, R. E. 1980a. *The Siddhasāra of Ravigupta. 1. The Sanskrit text*. Wiesbaden: Steiner.
- Emmerick, R. E. 1982. *The Siddhasāra of Ravigupta. 2. The Tibetan version with facing English translation*. Wiesbaden: Steiner.
- Emmerick, R. E., and M. I. Vorob'eva-Desjatovskaja 1993. *Saka documents VII. The St. Petersburg Collections [SD VII], Corpus Inscr. Iran. II/V, London. (SD VII, pls. 23-25 and 105, and SDTV III, pp. 36-37 and 134-35)*.
- Emmerick, R. E., and M. I. Vorob'eva-Desjatovskaja 1995. *Corpus inscriptionum Iranicarum. Pt. 2: Inscriptions of the Seleucid and Parthian periods and of Eastern Iran and Central Asia. Vol. 5: Saka. Texts 3: Saka documents textvolume III: the St. Petersburg collections*. London: School of Oriental and African Studies.
- Filliozat, J. 1948. *Fragments de textes Khoutchéens de médecine et de magie*. Paris: Adrien Maisonneuve.
- Fukuda, I. 1989. *A new critical edition of the Mahāvvyutpatti. Sanskrit-Tibetan-Mongolian dictionary of Buddhist terminology*. The Tōyō Bunko.
- Hoernle, A. F. R. 1893-1912. *The Bower manuscript. Facsimile leaves, Nagari transcript, romanised transliteration and English translation with notes*. Calcutta.
- Hoernle, A. F. R.. 1897. *The Suśruta-Saṃhitā or the Hindu system of medicine according to Suśruta. Translated from the original Sanskrit*. Calcutta.
- Hoernle, A. F. R. 1908. *The Bower manuscript. Facsimile leaves, Nagari transcript, romanised transliteration and English translation with notes, 3: General Sanskrit Index*. Calcutta, 241–343.
- Ishihama, Yumiko 石濱 裕美子, and Fukuda, Yōichi 福田 洋一 1989. *Shintei hon'yaku myōgi taishū 新訂翻訳名義大集 = A new critical edition of the Mahāvvyutpatti: Sanskrit-Tibetan-Mongolian dictionary of Buddhist terminology*. Tokyo: The Tōyō Bunko.

- Jamison, S. W. and J. P. Brereton 2014. *The Rigveda: the earliest religious poetry of India*. Oxford University Press.
- Konow, S. 1941. *A medical text in Khotanese Ch. II 003 of the India Office Library. With translation and vocabulary*. Oslo: Dybwad.
- Lévi, S. 1911. 'Étude des documents tokhariens de la mission Pelliot'. *Journal Asiatique*, 10.18, 119-144.
- Maue, D. 1996. *Alttürkische Handschriften. Teil I: Dokumente in Brāhmī und tibetischer Schrift*, Stuttgart: Franz Steiner.
- Maue, D. 2008. 'An Uighur version of Vāgbhaṭa's Aṣṭāṅgahṛdayasaṃhitā'. *Asian Medicine* 4, 113-173.
- Maue, D. and N. Sims-Williams 1991. 'Eine Sanskrit-Sogdische Bilingue in Brāhmī'. *Bulletin of the School of Oriental and African Studies*, University of London, 54.3, 486-495.
- Meulenbeld, J. G. 1974. *Madhavanidāna. English translation with principal commentaries chapters 1-10*. Leiden: Brill.
- Orlandi, C. 1991. *Gli inni dell'Atharvaveda (Śaunaka)*. Pisa: Giardini.
- Raison, A. 1974. *La Haritasamhita, texte medical sanskrit avec un index de nomenclature ayurvedique*. Pondichéry: Institut Français de Pondichéry.
- Reck, C. and A. Benkato 2018. 'Like a virgin': a Sogdian recipe for restoring virginity and the Sanskrit background of Sogdian medicine'. *Written Monuments of the Orient*, Vol. 4.2, 67-91.
- Reck, C. and J. Wilkens 2015. 'Soghdische Versionen von Vāgbhaṭa's Aṣṭāṅgahṛdayasaṃhitā'. In Ragagnin, E. and J. Wilkens (Hrsgg.), *Kutadgu nom bitig: Festschrift für Jens Peter Laut zum 60. Geburtstag*, 431- 452. Wiesbaden: Harrassowitz.
- Rossi, P. (ed.) 2020. *Atharvaveda. Il Veda delle formule magiche*. Mimesis.
- Sharma, P. V. (transl.) 1998. *Caraka-Saṃhitā: Agniveśā's treatise refined and annotated by Caraka and redacted by Dṛḍhabala. Text with English translation*. Jaikrishnadas Ayurveda Series, 36, Varanasi: Chaukhambha Orientalia.
- Sharma, P. V. (transl.) 2014. *Caraka-Saṃhitā: Agniveśā's treatise refined and annotated by Caraka and redacted by Dṛḍhabala. Text with English translation*. Vol. 1 (rev. ed.). Varanasi: Chaukhambha Orientalia.

- Sharma, P. V. (transl.) 1999-2001. *Suśruta-Saṃhitā, with English translation of text and Dalhaṇḍ's commentary alongwith critical notes*, 3 Vols. Varanasi: Chaukhamba Visvabharati.
- Sharma, R. K. and V. B. Dash (transl.) 1976-2001. *Agniveśa's Caraka Saṃhitā. Text with English translation & critical exposition based on Cakrapāṇi Datta's Āyurveda Dīpikā*, 7 Vols. Varanasi: Chaukhamba Sanskrit Series Office.
- Skjærvø, P. O. 1986. 'Khotanese fragments of the Vimalakīrtinirdeśasūtra'. In E. Kahrs (ed.): *Kalyāṇamitrārāgaṇam: Essays in Honour of Nils Simonsson*, 229-60, Oslo: Norwegian University Press.
- Skjærvø, P. O. 2002. *Khotanese manuscripts from Chinese Turkestan in The British Library. A complete catalogue with texts and translations*. London: The British Library.
- Skjærvø, P. O. 2004a. *This most excellent shine of gold, king of kings of sutras. The Khotanese Suvarṇabhāsottamasūtra*. 1-2. Harvard: Harvard University.
- Srikantha Murthy, K. R. (transl.) 1991-1995. *Vāgbhata's Aṣṭāṅga Hṛdayam. Text, English translation, notes, appendix, and indices*, 3 vols. Varanasi: Krishnadas Academy.
- Srikantha Murthy, K. R. (transl.) 2000. *Illustrated Suśruta Saṃhitā. Text, English translation, notes, appendices and index*. Varanasi: Chaukhamba Orientalia.
- Srinivas Rao, P. (transl.) 2005. *Vagbhata's Aṣṭāṅga Saṃgraha. Text with English translation, notes, index & sloka index*. 3 vols. Varanasi: Chowkhamba Krishnadas Academy.
- Tewari, P. (transl.) 1996. *Kāśyapa-saṃhitā or Vṛddhajīvākīya tantra. Text with English translation and commentary*. Varanasi: Chaukhamba Visvabharati.
- Whitney, W. D. and C. R. Lanman 1905. *Atharva-Veda-Saṃhitā. Translated into English with critical and exegetical commentary*. 2 vols. Delhi: Motilal Banarsidass.
- Wujastyk, D. 1985. *A handlist of the Sanskrit and Prakrit manuscripts in the library of the Wellcome Institute for the History of Medicine*, I. London: The Wellcome Institute for the History of Medicine.
- Wujastyk, D. 1998. *A handlist of the Sanskrit and Prakrit manuscripts in the library of the Wellcome Institute for the History of Medicine*, II. London: The Wellcome Institute for the History of Medicine.

Grammars, lexicons, and dictionaries

- Abhyankar, K. V. 1961. *A Dictionary of Sanskrit Grammar*. Baroda: Oriental Institute.
- Akiner, S. and N. Sims-Williams (eds.) 1997. *Languages and Scripts of Central Asia*. London: School of Oriental and African Studies.
- Bailey, H. W. 1979. *Dictionary of Khotan Saka*. Cambridge: Cambridge University Press.
- Buck, C. D. 1949. *A dictionary of selected synonyms in the principal Indo-European languages. A contribution to the history of ideas*. Chicago: The University of Chicago Press.
- Cheung, J. 2007. *Etymological dictionary of the Iranian verb*. Leiden: Brill.
- Degener, A. 1989. *Khotanische Suffixe*. Stuttgart: Steiner.
- Emmerick, R. E. 1968b. *Saka grammatical studies*. London: Oxford University Press.
- Emmerick, R. E., and P. O. Skjærvø 1982. *Studies in the vocabulary of Khotanese I*. Wien: Verlag der Österreichischen Akademie der Wissenschaften.
- Emmerick, R. E., and P. O. Skjærvø 1987. *Studies in the vocabulary of Khotanese II*. Wien: Verlag der Österreichischen Akademie der Wissenschaften.
- Emmerick, R. E., and P. O. Skjærvø 1997. *Studies in the vocabulary of Khotanese III*. Wien: Verlag der Österreichischen Akademie der Wissenschaften.
- Emmerick, R. E. unpublished. *An introduction to Khotanese*.
- Gerth van Wijk, H. L. 1911. *A Dictionary of plantnames*. 1-2. Haarlem: Dutch Society of Sciences.
- Gotō, T. 2013. *Old Indo-Aryan morphology and its Indo-Iranian background*. Wien: Österreichischen Akademie der Wissenschaften.
- Kellens, J. 1984. *Le verbe avestique*. Wiesbaden: Reichert.
- Kellens, J. 1995. *Liste du verbe avestique*. Wiesbaden: Reichert.
- Konow, S. 1949. *Primer of Khotanese Saka. Grammatical sketch, chrestomathy, vocabulary, bibliography*. Oslo: Aschehoug.
- Leumann, E. 1912. *Zur Nordarischen Sprache Und Literatur: Vorbemerkungen Und Vier Aufsätze Mit Glossar*. Schriften Der Wissenschaftlichen Gesellschaft in Straßburg 10. Straßburg: Trübner.
- Leumann, M. 1934. *Sakische Handschriftproben*. Zürich: s.n.
- Mayrhofer, M. 1956. *Kurzgefaßtes etymologisches Wörterbuch des Altindischen. A Concise Etymological Sanskrit Dictionary, 1*. Heidelberg: Carl Winter Universitätsverlag.

- Mayrhofer, M. 1963. *Kurzgefaßtes etymologisches Wörterbuch des Altindischen. A Concise Etymological Sanskrit Dictionary*, 2. Heidelberg: Carl Winter Universitätsverlag.
- Mayrhofer, M. 1976. *Kurzgefaßtes etymologisches Wörterbuch des Altindischen. A Concise Etymological Sanskrit Dictionary*, 3. Heidelberg: Carl Winter Universitätsverlag.
- Mayrhofer, M. 1980. *Kurzgefaßtes etymologisches Wörterbuch des Altindischen. A Concise Etymological Sanskrit Dictionary*, 4. Heidelberg: Carl Winter Universitätsverlag.
- Mayrhofer, M. 1992. *Etymologisches Wörterbuch Des Altindoarischen*, 1. Heidelberg: Carl Winter Universitätsverlag.
- Mayrhofer, M. 1996. *Etymologisches Wörterbuch des Altindoarischen*, 2. Heidelberg: Carl Winter Universitätsverlag.
- Mayrhofer, M. 2001. *Etymologisches Wörterbuch Des Altindoarischen*, 3. Heidelberg: Carl Winter Universitätsverlag.
- Monier-Williams, M. 1899. *A Sanskrit-English dictionary*. Oxford.
- Norri, J. 2016. *Dictionary of medical vocabulary in English, 1375-1550. Body parts, sicknesses, instruments, and medicinal preparations*. London: Routledge.
- Pulleyblank, E. G. 1991. *Lexicon of reconstructed pronunciation in Early Middle Chinese, Late Middle Chinese, and Early Mandarin*. Vancouver: UBC Press.
- Quattrocchi, U. 2012. *World dictionary of medicinal and poisonous plants. Common names, scientific names, eponyms, synonyms, and etymology*. Boca Raton: CRC Press.
- Rao, R. S. K. 1985. *Encyclopaedia of Indian medicine. Historical perspective 1. Popular* Prakashan Bombay.
- Rastorgueva, V. S., and Džoj I. Édel'man. 2000-2011. *Étimologičeskij slovar' iranskih jazykov*. 4 vols. Moscow: Vostočnaja literatura.
- Schmitt, R. (ed.) 1989. *Compendium Linguarum Iranicarum*. Wiesbaden: Reichert.
- Sharma, A. P. V. 2003. *Dravyaguṇakoṣaḥ. Dictionary of Ayurvedic terms relating to names, synonyms, properties and actions medicinal plants (Sanskrit-Hindi-English)*. New Delhi: Chaukhambha Orientalia.
- Tubb, G. A., and E. R. Boose 2007. *Scholastic Sanskrit. A handbook for students*. New York: The American Institute of Buddhist Studies.
- Turner, R. L. 1966. *A comparative dictionary of the Indo-Aryan languages*. London: Oxford University Press.

- Turner, R. L. 1969. *A comparative dictionary of the Indo-Aryan languages. Indexes*. London: Oxford University Press.
- Turner, R. L. 1971. *A comparative dictionary of the Indo-Aryan languages. Phonetic analysis*. London: Oxford University Press.
- Turner, R. L. 1985. *A comparative dictionary of the Indo-Aryan languages. Addenda and corrigenda*. London: Oxford University Press.
- Wodtko, D. S., B. Irslinger, and C. Schneider 2008. *Nomina im Indogermanischen Lexikon*. Heidelberg: Universitätsverlag Winter.

Secondary sources

Articles and general works

- Bailey, H. W. 1942. 'Hvatanica, IV'. *Bulletin of the School of Oriental and African Studies, University of London*, 886-924.
- Bailey, H. W. 1944. 'A Turkish-Khotanese vocabulary'. *Bulletin of the School of Oriental and African Studies, University of London* 11.2, 290-296.
- Bailey, H. W. 1946: 'Gāndhārī'. *Bulletin of the School of Oriental and African Studies, University of London* 11.4, 764-797.
- Bailey, H. W. 1949. 'Irano-Indica II'. *Bulletin of the School of Oriental and African Studies, University of London*, 13.1, 121-139.
- Bailey, H. W. 1954. 'Indo-Iranian Studies II'. *Transactions of the Philological Society*. Oxford: Basil Blackwell, 129-156.
- Bailey, H. W. 1964. 'Saka Miscellany'. *Indo-Iranica: mélanges présentés à Georg Morgenstierne à l'occasion de son soixante-dixième anniversaire*, 8-12.
- Bailey, H. W. 1965. 'Viśa Saṃgrāma' *AM, NS, XI, 2*, 101-119.
- Bailey, H. W. 1977. 'Khotan Saka metal and mineral names'. *Studia Orientalia* 47, 19-23.
- Bailey, H. W. 1985. 'Plant names'. In I. Gershevitch (ed.): *The Cambridge History of Iran, 2: The Median and Achaemenian periods*. Cambridge: Cambridge University Press, 870-873.
- Basham, A. L. 1981. *The wonder that was India. A survey of the history and culture of the Indian Sub-Continent before the coming of the Muslims*. Calcutta: Rupa.

- Basu, H. 2018. 'Possession'. In A. J. Knut et al. (eds.): *Brill's Encyclopedia of Hinduism Online*. Consulted online on 22 July 2023 <http://dx.doi.org/10.1163/2212-5019_BEH_COM_000181>.
- Bielmeier, R. 1977. *Historische Untersuchung zum Erbund Lehnwortschatzanteil im ossetischen Grundwortschatz*. Frankfurt: Peter Lang.
- Birch, J., D. Wujastyk, A. Klebanov, M. Rimal, D. Chakraborty, H. Bhatt, and V. Lele. 2021. 'Ḍalhaṇa and the early "Nepalese" version of the *Suśrutasaṃhitā*'. *Academia Letters*, October.
- Boccali, G., S. Piano, e S. Sani 2000. *Le letterature d'India*. Torino: UTET.
- Boesi, A. 2015. *Piante medicinali del Tibet: Un antico manoscritto di scienza della guarigione*. Roma: Ismeo.
- Bronkhorst, J. 2007. *Greater Magadha: Studies in the Culture of Early India*. Leiden.
- Campanile, Enrico et alii (2005). *Introduzione alla lingua e alla cultura degli Indoeuropei*. Bologna: Il Mulino.
- Cappers, R. T. J. et alii 2009. *Digital atlas of economic plants*. Groningen: Barkhuis.
- Cappers, R. T. J. et alii 2012. *Digital atlas of economic plants in archaeology*. Groningen: Barkhuis.
- Carling, G. 2005. 'Proto-Tocharian, common Tocharian, and Tocharian. On the value of linguistics connections in a reconstructed language'. In K. Jones-Bley et al. (eds.): *Proceedings of the Sixteenth Annual UCLA Indo-European Conference, Los Angeles, 5-6 November 2004*, Washington: Institute for the Study of Man, 47-71.
- Carling, G. 2007. 'The vocabulary of Tocharian medical manuscripts'. *Asian Medicine* 3, 323-33
- Cerulli, A. 2018. 'Āyurveda'. In A. J. Knut et al. (eds.): *Brill's Encyclopedia of Hinduism Online*. Consulted online on 22 July 2023 <http://dx.doi.org/10.1163/2212-5019_BEH_COM_2060050>.
- Chandler, A. C. 1922. *Animal parasites and human disease*. New York: Stanbope Press.
- Comba, A. 1991. *La medicina indiana (Āyurveda)*. Torino: Promolibri.
- Daffinà, P. 1991. 'Sull'uso della scrittura nell'India antica'. *Rivista degli studi orientali* 65, 13-39.
- Das, R. P. 1984. 'Review of G.U. Thite, *Medicine. Its magico-religious aspects according to the Vedic and later literature*'. *Indo-Iranian Journal* 27, 233-244.

- Das, R. P. 1987. 'On the identification of Vedic plant'. In D. Wujastyk and K. Zysk (eds.): *Studies on Indian Medical History*. Delhi, 17-38.
- Das, R. P. 1993. 'On the nature and development of "traditional Indian medicine"'. *Journal of the European Āyurvedic Society* 3, 56-71.
- Das, R. P. 2003a. 'The development of traditional South Asian medicine against the background of the "magical" mode of looking at the world'. *Traditional South Asian Medicine* 7, 29-54.
- Das, R. P. 2003b. *The origin of the life of a human being: Conception and the female according to ancient Indian medical and sexological literature* (1st ed). Motilal Banarsidass Publishers.
- Das, R. P. 2011. 'The classical Āyurvedic representation of human anatomy'. In B. Tikkanen and A. M. Butters (eds.): *Pūrvāparaprajñābhinandanam East and West, Past and Present*, 67-83.
- Dash, V. B., and V. L. Kashyap 1980. *Materia medica of Ayurveda. Based on Ayurveda Saukhyam of Todarānanda*. New Delhi: Concept Publishing Company.
- Dash, V. B. 1999. *Fundamentals of Ayurvedic medicine*. Lotus Press.
- Degener, A. 1989. 'Beispiele der Klassifikation indischen Lehngutes im Khotanischen'. *Studien zur Indologie und Iranistik* 15, 41-49.
- Degener, A. 1992. 'Fremdsprachiger Einfluß Auf Khotanische Suffixe'. In A. Wezler and E. Hammerschmidt (eds.): *Proceeding of the XXXII International Congress for Asian and North African Studies, Hamburg, 25th-30th August 1986*. Stuttgart: Steiner, 207-209.
- Degener, A. 1993. 'Zur Syntax des Khotanischen'. In Wojciech Skalmowsky and Alois van Tongerlo (eds.): *Medioiranica: Proceedings of the International Colloquium organized by the Katholieke Leuven from the 21st to the 23rd of May 1990*. Leuven: Peeters, 45-56.
- Delaini, P. 2010. 'Introduzione alla medicina avestica'. In A. Piras and P. Delaini (eds.): *Conoscenze mediche sul corpo come tramite di cultura tra oriente e occidente: Atti della giornata di studi Palazzo dell'Archiginnasio, Societas Medica Chirurgica Bononiensis, Bologna 20 aprile 2009*. Milano: Mimesis, 25-48.
- Del Tomba, A. 2021. 'Genus alternans in Khotanese? A synchronic analysis of the agreement class'. *Archivio Glottologico Italiano*, Vol. 106.2, 164-194.
- Dragoni, F. 2021. 'Materia Medica Tocharo-Hvatanica'. *Bulletin of the School of Oriental and African Studies* 84.2, 295-319.

- Dragoni, F 2022. *Watañi lāntam. Khotanese and Tumshuqese loanwords in Tocharian*. (Doctoral thesis, Universiteit Leiden, Leiden, The Netherlands).
- Duan Qing 段晴 1991. ‘Yutian wen de canzi jianzi sizi 于阗文的蠶字、繭字、絲字 [Khotanese words for silkworm, cocoon and silk]’. In Ji Xianlin jiaoshou bashi hadan jinian wenji 季羨林教授八十華誕紀念論文集 [Festschrift for Professor Ji Xianlin on the Occasion of his 80th Birthday]. Nanchang, 45-50.
- Duan, Qing 段晴 2005. “‘Mulberry’ in Khotanese. A new Khotanese loan deed in the Hetian museum”. *Bulletin of the Asia Institute*, 19, new series, 5-14.
- Duan, Qing 段晴, and Hetian Diqu Bowuguan 和田地區博物館 2009. ‘Hetian Bowuguan Cang Yutianyu Zulin Qiyue Yanjiu: Zhongshi Yutian Zhi ‘Sang’ 和田博物館藏于阗語租賃契約研究——重識于阗之‘桑’ [Study of a lease contract in the Hetian museum: Identification of “Mulberry” in Khotan]’. *Dunhuang Tulufan Yanjiu 敦煌吐魯番研究* 11, 9–44.
- Emmerick, R. E. 1965. ‘Syntax of the cases in Khotanese’. *Bulletin of the School of Oriental and African Studies, University of London* 28.1, 24-33.
- Emmerick, R. E. 1966. ‘Notes and communications. Some Khotanese past participles’. *Bulletin of the School of Oriental and African Studies, University of London* 29.3, 612-617.
- Emmerick, R. E. 1967. ‘The mustard upamā’. *Journal of the Royal Asiatic Society of Great Britain and Ireland* 1/2, 22-25.
- Emmerick, R. E. 1968a. ‘Names from central Asia’. *Central Asiatic Journal* 12.2, 88-91.
- Emmerick, R. E. 1971. ‘On Ravigupta's “gaṇas”’. *Bulletin of the School of Oriental and African Studies, University of London* 34.2, 363-375.
- Emmerick, R. E. 1971. ‘The Sanskrit text of the Siddhasāra’ *Bulletin of the School of Oriental and African Studies, University of London* 34.1, 91-112.
- Emmerick, R. E. 1974. ‘New light on the Siddhasāra’. *Bulletin of the School of Oriental and African Studies* 37.3, 628-654.
- Emmerick, R. E. 1975. ‘Ravigupta’s place in Indian medical tradition’. *Indologica Taurinensia* 3-4, 209-221.
- Emmerick, R. E. 1979a. ‘Contributions to the study of the Jīvaka-pustaka’. *Bulletin of the School of Oriental and African Studies* 42.2, 235-243.

- Emmerick, R. E. 1979b. 'On the indexation of Sanskrit medical verses and prescriptions'. *Études sur la médecine indienne*. Strasbourg: Université Louis Pasteur (Scientia Orientalis: Cahiers du Seminaire sur les sciences et les techniques en Asie 16), 3-8.
- Emmerick, R. E. 1979c. 'The vowel phonemes of Khotanese'. In B. Brogyanyi (ed.): *Studies in diachronic, synchronic, and typological linguistics: Festschrift for Oswald Szemerényi*. Amsterdam: J. Benjamins, 239-250.
- Emmerick, R. E. 1980b. 'r-/n-stems in Khotanese'. In M. Mayrhofer, M. Peters, and O. E. Pfeiffer (eds.): *Lautgeschichte und Etymologie: Akten der VI. Fachtagung der Indogermanischer Gesellschaft, Wien, 24.-29. September 1978.* Wiesbaden: Reichert, 166-72.
- Emmerick, R. E. 1980c. 'Khotanese byāñä'. *Zeitschrift für vergleichende Sprachforschung*, 94, 282-288.
- Emmerick, R. E. 1981. 'Khotanese "bihīya" again'. *Bulletin of the School of Oriental and African Studies, University of London* 44.3, 445-452.
- Emmerick, R. E. 1981. 'Arsenic and sida'. In G. Mazars (éd.): *Les médecines traditionnelles de l'Asie: Actes du colloque de Paris, 11-12 juin 1979*. Strasbourg: Université Louis Pasteur, 93-102.
- Emmerick, R. E. 1983a. 'Some remarks on translation techniques of the Khotanese'. In K. Röhrborn and W. Veenker (eds.): *Sprachen Des Buddhismus in Zentralasien: Vorträge Des Hamburger Symposions Vom 2. Juli Bis 5. Juli 1981*. Wiesbaden: Harrassowitz, 17-26.
- Emmerick, R. E. 1983b. 'Some more loanwords in Khotanese'. *Die Sprache* 29.1, 43-49.
- Emmerick, R. E. 1984. 'Khotanese vī hā'. *Orientalia J. Duchesne-Guillemain emerito oblata*, 151-155.
- Emmerick, R. E. 1984. 'Some remarks on the history of leprosy in India'. *IndT* 12, 93-105.
- Emmerick, R. E. 1985a. 'Tibetan loanwords in Khotanese and Khotanese loanwords in Tibetan'. In G. Gnoli e L. Lanciotti (cur.): *Orientalia Iosephi Tucci memoriae dicata*. 1. Roma: Istituto Italiano per il Medio ed Estremo Oriente, (SOR 56.1), 301-317.
- Emmerick, R. E. 1985b. 'Khotanese bāljsē'. *Münchener Studien zur Sprachwissenschaft* 45, 39-53.

- Emmerick, Ronald E. 1987. 'Auxiliaries in Khotanese'. In M. Harris and P. Ramat (eds.): *Historical Development of Auxiliaries*. Trends in Linguistics. Studies and Monographs 35, 271-90.
- Emmerick, R. E. 1987. 'The transition from Old to Late Khotanese'. *Transition Periods in Iranian History: Actes Du Symposium de Fribourg-En-Brisgau (22-24 Mai 1985)*, 33-42.
- Emmerick, E. 1989. 'Khotanese and Tumshuqese'. In R. Schmitt (ed.): *Compendium linguarum Iranicarum*, 204-29.
- Emmerick, R. E. 1990. 'Caraka'. In E. Yarshater (ed.): *Encyclopaedia Iranica*, 4. London: Routledge and Kegan Paul, 792.
- Emmerick, R. E. 1990. 'Two more Khotanese ghostwords'. *Iranica varia: Papers in honor of Professor Ehsan Yashater*. Leiden: Brill, 80-82.
- Emmerick, R. E. 1991. 'Some Remarks on Tibetan Sphygmology'. In G. J. Meulenbeld (ed.): *Panels of the VIIIth World Sanskrit Conference, Kern Institute, Leiden: August 23-29, 1987 VIII: Medical Literature from India, Sri Lanka and Tibet*, Leiden, 66-72.
- Emmerick, Ronald E. 1992a. *A guide to the literature of Khotan*. 2nd ed. Tokyo: The International Institute for Buddhist Studies.
- Emmerick, R. E., and A. Róna-Tas. 1992b. 'The Turkish-Khotanese wordlist revisited'. *CAJ* 36.3-4: 199-241.
- Emmerick, R. E. 1993. 'Indo-Iranian concepts of disease and cure'. *Journal of the European Āyurvedic Society* 3, 72-93.
- Emmerick, R. E. 1994. 'The mahāsauvarcalādi ghee'. In K. Röhrborn and W. Veenker (eds.): *Memoriae Munusculum: Gedenkband Für Annemarie v. Gabain*. Veröffentlichungen Der Societas Uralo-Altaica 39. Wiesbaden: Harrassowitz, 29-42.
- Emmerick, R. E. 1997. 'The mahāsauvarcalādi ghṛta in Hoernle's unpublished edition of the "Jivakapustaka"'. *JEĀS* 5, 76-81.
- Ferrari, F. M. and M. Refolo 2017. 'The use of snuhī in Indian medical and ritual literature, with a note on Bengali Śaktism'. In R. P. Das (ed.): *Traditional South Asian Medicine* 9. Wiesbaden: Reichert, 84-119.
- Ferrari, F. 2022. 'Il cuore e le malattie cardiache nella medicina esorcistica vedica'. *Studi e Materiali di Storia delle Religioni*, 88.1, 222-241

- Filliozat, J. 1964. *The classical doctrine of Indian medicine. Its origins and its Greek parallels*. New Delhi: Munshiram Manoharlal.
- Fortson, B. W. 2009. *Indo-European language and culture. An introduction*. Wiley-Blackwell.
- Fujieda, A. 1966. 'The Tun-huang manuscripts. A general description, Part I'. *Zinbun: Memoirs of the Research Institute for Humanistic Studies, Kyoto University* 9, 1-32.
- Giles, H. A. 2011. *The travels of Fa-Hsien (399-414 A.D.). A record of Buddhist kingdoms*. Cambridge University Press.
- Gombrich, R. 1992. 'The Buddha's book of Genesis?'. *Indo Iranian Journal*, 35, 159-178.
- Gonda, J. 1975. *A history of Indian literature: Vedic literature*. Wiesbaden: Harrasowitz.
- Gazzaniga, V. 2018. *La medicina antica*. Roma: Carocci editore.
- Guthrie, D. 1945. *A History of medicine*. London: Thomas Nelson and Sons.
- Harimoto, K. 2014. 'Nepalese manuscripts of the *Suśrutasaṃhitā*'. *Journal of Indian and Buddhist Studies*, Vol. 62. 3 (1087-1093).
- Ḥasandust, M. 2014. *Farhang-e rišešenāxti-ye zabān-e Fārsi*. Tehrān: Farhangestān-e Zabān va Adab-e Fārsi, 1393.
- Hellwig, O. 2009. *Wörterbuch der mittelalterlichen indischen Alchemie*. Eelde: Barkhuis.
- Hitch, D. A. 2017. 'Old Khotanese type A stems in -a- and -e-'. *Bulletin of the School of Oriental and African Studies* 80.3, 491-523.
- Hoernle, A. F. R. 1907. *Studies in the medicine of ancient India. Osteology or the bones of the human body*. Oxford: Clarendon Press.
- Hoernle, A. F. R. 1917. 'An ancient medical manuscript from Eastern Turkestan'. In *Commemorative Essays Presented to Sir Ramkrishna Gopal Bhandarkar*. Poona: Bhandarkar Oriental Research Institute, 415-32.
- Klebanov, A. 2010. 'The *Nepalese version of the *Suśrutasaṃhitā* and its interrelation with Buddhism and the Buddhists'. MA thesis, Hamburg: Hamburg University.
- Klebanov, A. 2021a. 'On the textual history of the *Suśrutasaṃhitā* (1): A study of three Nepalese manuscripts'. *eJournal of Indian Medicine*, 12.1, 1-64.
- Klebanov, A. 2021b. 'On the textual history of the *Suśrutasaṃhitā*, (2): An anonymous commentary and its identified citations'. In *Body and Cosmos: Studies in Early Indian Medical and Astral Sciences in Honor of Kenneth G. Zysk*, 110-139. Leiden, Boston: Brill.

- Jolly, J. 1951. *Indian medicine. Translated from German and supplemented with notes by C. G. Kashikar; with a Foreword by J. Filliozat*. Poona.
- Joshi, V. K. 1983. 'Evolution of the concept of *aṣṭavarga*'. *Indian Journal of History of Science* 18.1, 9-14.
- Joshi, V. K. 2016. *Indigenous fermented foods of South Asia*. New York: CRC Press.
- Kanny Lall Dey, R. B. 1896. *The indigenous drugs of India*. Calcutta.
- Kenoyer, J. M. 1991. 'The Indus Valley tradition of Pakistan and Western India'. *Journal of World Prehistory* 5.4, 331-385.
- Kenoyer, J. M. 1998. *Ancient cities of the Indus Valley Civilization*. Karachi: Oxford University Press and American Institute of Pakistan Studies.
- Kenoyer, J. M. 2008. 'Indus civilization'. In D. M Pearsall (ed.): *Encyclopaedia of Archaeology*. New York: Academic Press, 715-733.
- Khare, C. P. 2004. *Indian herbal remedies. Rational Western therapy, Ayurvedic and other traditional usage, botany with 255 figures*. New Dehli: Springer.
- Khare, C. P. 2007. *Indian medicinal plants. An illustrated dictionary with 215 pictures of crude herbs*. New Dehli: Springer.
- Klein, J. *et alii* (eds.) 2017. *Handbook of comparative and historical Indo-European linguistics*. Berlin: De Gruyter Mouton.
- Köhle, N. 2016. 'A confluence of humours. Āyurvedic conceptions of digestion and the history of Chinese "phlegm" (tan 痰)'. *Journal of the American Oriental Society* 136.3, 465-493
- Konow, S. 1914. 'Khotan studies'. *Journal of the Royal Asiatic Society*, 339-353.
- Kumamoto, H. 2008. 'A St. Petersburg bilingual document and problems of the chronology of Khotan'. *Journal of Inner Asian Art and Archaeology* 3, 75-82, 207.
- Kumamoto, H. 2009a. 'Khotan history in the pre-Islamic period'. In E. Yarshater (ed.) *Encyclopaedia Iranica*.
- Kumamoto, H. 2009b. 'The injunctive in Khotanese'. In K. Yoshida and B. Vine (eds.) *East and West: Papers in Indo-European Studies*. Bremen: Hempen, 133-49.
- Kumamoto, H. 2019. 'More on the injunctive in Khotanese'. In A. A. Catt, R. I. Kim, and B. Vine (eds.) *QAZZU warrai Anatolian and Indo-European Studies in Honor of Kazuhiko Yoshida*. Ann Arbor: Beech Stave Press, 213-224.

- Kumamoto, H. 2022. 'KHOTAN'. In K. Fleet, G. Krämer, D. Matringe, J. Nawas, D. J. Stewart (eds.): *Encyclopaedia of Islam, THREE*. Consulted online on 30 January 2023 <http://dx.doi.org/10.1163/2330-4804_EIRO_COM_365009>
- Kutumbiah, P. 1962. *Ancient Indian medicine*. Bombay: Orient Longmans.
- Laufer, B. 1919. *Sino-Iranica. Chinese contributions to the history of civilization in ancient Iran*. Chicago: Field Museum of Natural History.
- Leslie, C. 1992. 'Interpretation of illness: syncretism in modern ayurveda'. In C. Leslie and A. Young (eds.): *Paths to Asian Medical Knowledge*, 177-208. Berkley: Oxford.
- Leslie, J. and D. Wujastyk 1991. 'The doctor's assistant. Nursing in ancient Indian medical texts'. In P. Holden and J. Littlewood (eds.): *Antropology and Nursing*. London: Routledge.
- Leumann, E. 1920. *Buddhistische Literatur Nordarisch Und Deutsch*. Vol. 1: Nebenstucke. Abhandlungen Fur Die Kunde Des Morgenlandes, 15.2. Leipzig: Brockhaus.
- Lo, Vivienne, 羅維前, Penelope Barrett, David Dear, Lu Di, 蘆笛, Lois Reynolds, Dolly Yang, and 楊德秀, (eds.) 2018). *Imagining Chinese Medicine*. Brill.
- Lo Muzio, C. 'KHOTAN'. In K. Fleet, G. Krämer, D. Matringe, J. Nawas, D. J. Stewart (eds.): *Encyclopaedia of Islam, THREE*. Consulted online on 30 January 2023 <http://dx.doi.org/10.1163/2330-4804_EIRO_COM_365009>.
- Lo Turco, B. 2018. 'Buddhismo'. In D. Rossi (ed.): *Fili di seta. Introduzione al pensiero filosofico e religioso dell'Asia*. Roma: Ubaldini editore.
- Loukota, D. 2019. 'Made in China? Sourcing the Old Khotanese *Bhaiṣajyaguruvaidūryaprabhasūtra*'. *Journal of the American Oriental Society*, 139.1, 67–90.
- Luzziatti, S. 2022. 'Lexical Notes on the Khotanese *Piṇḍaśāstra*'. *Indo-Iranian Journal* 65, 227-248,
- Maas, P. A. 2007. 'The concepts of the human body and disease in classical Yoga and Āyurveda'. *Wiener Zeitschrift Für Die Kunde Südasiens / Vienna Journal of South Asian Studies* 51, 125-62.
- Maas, P. A. 2010. 'On what became of the *Carakasamhitā* after Dṛḍhabala's revision'. *eJournal of Indian Medicine*, 3.1, 1-22.
- Maas, P. A. 2017. 'Rasāyana in classical Yoga and Ayurveda'. *History of Science in South Asia* 5.2, 66-84.

- Maas, P. A. 2018. 'Indian medicine and Ayurveda'. In A. Jones and L. Taub (eds.): *The Cambridge History of Science* 1. Cambridge: Cambridge University Press.
- Maggi, M. 1995. 'Five Khotanese ghostwords'. *East and West* 45, 365-370.
- Maggi, M. 2003. 'Ronald Eric Emmerick and the Siddhasāra. Khotanese, Iranian and Oriental studies'. *Traditional South Asian Medicine* 7, 15-28.
- Maggi, M. 2004. 'Il Grande veicolo in Asia Centrale: il buddhismo di Khotan e il Libro di Zambasta'. In R. Gnoli (ed.): *La rivelazione del Buddha*, 2. Milano: Arnoldo Mondadori, CLII-CCXIX.
- Maggi, M. 2008a. 'A Khotanese medical text on poultices. Manuscripts P2893 and IOL Khot S 9'. *Traditional South Asian Medicine* 8, 77-85.
- Maggi, M. 2008b. 'Jivakapustaka'. In E. Yarshater (ed.): *Encyclopædia Iranica* 14, 664.
- Maggi, M. 2008c. 'Late Khotanese *avala dīmana*'. In M. Jaafari-Dehaghi (ed.): *One for the Earth: Prof. Dr. Y. Mahyar Nawabi Memorial Volume*. Tehran: Centre for the Great Islamic Encyclopaedia, 95-103.
- Maggi, M. 2009a. 'Annotations on the *Book of Zambasta*, I'. In D. Durkin-Meisterernst, C. Reck, and D. Weber (eds.): *Literarische Stoffe Und Ihre Gestaltung in Mitteliranischer Zeit: Kolloquium Anlässlich Des 70. Geburtstages von Werner Sundermann*. Wiesbaden: Reichert 153-171.
- Maggi, M. 2009b. 'Khotanese literature'. In R. E. Emmerick and M. Macuch (eds.) *The Literature of Pre-Islamic Iran. Companion Volume I to A History of Persian Literature*. London: I.B. Tauris, 330-508.
- Maggi, M. 2015. 'Local literatures. Khotanese'. In J. Silk (ed.): *Brill's Encyclopedia of Buddhism*. 1. *Literature and Languages*. Leiden: Brill, 860-870.
- Maggi, M. 2017. 'The Manuscript T III S 16. Its importance for the history of Khotanese literature'. In B. Meisterernst (ed.): *The Silk Roads*. 4: *Silk Road culture: Languages, art, material culture, archaeology*. London: Routledge, 110-126.
- Maggi, M. 2018. 'Khotanese *bijis*- and a quotation from the *Vīradattapariṣcchā* in the *Book of Zambasta*'. *Studia Iranica* 47.2, 201-214.
- Maggi, M. 2019a. 'Annotations on the *Book of Zambasta*, V. Indian parallels to 2.139 and the musk of Khotan'. In A. Hintze, D. Durkin-Meisterernst, and C. Naumann (eds.): *A Thousand Judgements: Festschrift for Maria Macuch*. Wiesbaden: Harrassowitz, 291-309.

- Maggi, M. 2019b. 'Bits and bites. The Berlin fragment bi 43 and Khotanese **druṣ-*'. *Annual Report of the International Research Institute for Advanced Buddhology* 22, 247-260.
- Maggi, M. 2019c. 'Morphology of the Khotanese verbs in *-Vṣ-*', *Linguistica e filologia* 39, 43-62.
- Maggi, M. 2021. 'Some remarks on the history of the Khotanese orthography and the Brāhmī script in Khotan'. *Annual report of the International Research Institute for Advanced Buddhology at Soka University* 25, 149-172.
- Maggi, M. 2022a. 'Khotan IV.–V. Khotanese literature'. In E. Yarshater (ed.) (ed.): *Encyclopædia Iranica* 17, 133-143.
- Maggi, M. 2022b. 'Light on the *Siddhasāra* from the *Jīvakapustaka*: the *Hapūṣādyaghṛta* in Khotanese (JP 26) and its Indian sources', *Linguistica e filologia* 42, 121-136.
- Mair, V., and P. O. Skjærvø 1991. 'Chinese Turkestan II. In pre-Islamic times'. In E. Yarshater (ed.): *Encyclopaedia Iranica*, 5, 463-469.
- Martini, G. 2011. 'Mahāmaitrī in a Mahāyāna Sūtra in Khotanese - Continuity and innovation in Buddhist meditation'. *Chung-Hwa Buddhist Journal* 24, 121-194.
- Martínez, J., and M. de Vaan 2014. *Introduction to Avestan*. Leiden: Brill.
- Mazars, G. 2006. *A Concise introduction to Indian medicine*. Delhi: Motilal Banarsidass.
- McHugh, J. 2020. '*Sīdhu* (*Śīdhu*). The sugar cane "wine" of ancient and early medieval India'. *History of Science in South Asia* 8, 36–56.
- Mehlhorn, H. 2016. *Animal parasites: diagnosis, treatment, prevention*. Springer.
- Meulenbeld, J. G. and J. Leslie 1991. *Medical literature from India, Sri Lanka and Tibet. Rules and remedies in classical Indian law* 8-9. Leiden: Brill.
- Meulenbeld, J. G. and D. Wujastyk (eds.) 1987. *Studies on Indian Medical History*. Delhi: Motilal Banarsidass.
- Meulenbeld, J. G. 1999. *A history of Indian medical literature. Volume IA Text*. Groningen: Forsten.
- Meulenbeld, J. G. 1999. *A history of Indian medical literature. Volume IB Annotation*. Groningen: Forsten.
- Meulenbeld, J. G. 2000. *A history of Indian medical literature. Volume IIA Text*. Groningen: Forsten.

- Meulenbeld, J. G. 2000. *A history of Indian medical literature. Volume IIB Annotation*. Groningen: Forsten.
- Meulenbeld, J. G. 2002. *A history of Indian medical literature. Volume III Indexes*. Groningen: Forsten.
- Meulenbeld, J. G. and D. Wujastyk 2002. *Studies on Indian medical history*. Delhi: Motilal Banarsidass.
- Meulenbeld, J. G. 2007. 'A quest for poison trees in Indian literature, along with notes on some plants and animals of the Kauṭīliya Arthaśāstra'. *Wiener Zeitschrift Für Die Kunde Südasiens / Vienna Journal of South Asian Studies* 51, 5-75.
- Mitra, S. et al. 2014. *Encyclopedia of India-China. Cultural contacts*. New Delhi: MaXposure.
- Müller, R. F. G. 1964. 'Indische Würmerkrankheiten'. *Gesnerus: Swiss Journal of the History of Medicine and Sciences* 21, 14-22.
- Nadkarni, K. M. 1954. *Indian Materia Medica*. 1-2. Bombay: Popular Book Depot.
- Nobel, J. 1951. *Ein alter medizinischer Sanskrit-Text und seine Deutung*. Supplement to the Journal of the American Oriental Society 11, Baltimore.
- Parpola, A. 1986. 'The Indus script: a challenging puzzle'. *World Archaeology*, 17.3, 99-419.
- Parpola, A. 2018. 'Indus Civilization (-1750 BCE)'. In A. J. Knut et al. (eds.): *Brill's Encyclopedia of Hinduism Online*. Consulted online on 22 July 2023 <http://dx.doi.org/10.1163/2212-5019_BEH_COM_9000000086>.
- Piddington, H. 1832. *An English index to the plants of India*. Calcutta: Baptist Mission Press.
- Proferes, Th., 2018a 'Vedic Period (1750 - 400 BCE)'. In A. J. Knut et al. (eds.): *Brill's Encyclopedia of Hinduism Online*. Consulted online on 22 July 2023 <http://dx.doi.org/10.1163/2212-5019_BEH_COM_9000000087>.
- Proferes, Th. 2018b. 'Vedas and Brāhmaṇas'. In A. J. Knut et al. (eds.): *Brill's Encyclopedia of Hinduism Online*. Consulted online on 22 July 2023 <http://dx.doi.org/10.1163/2212-5019_BEH_COM_2020010>
- Przyluski, J., and C. Régamey 1936. 'Les noms de la moutarde et du sésame'. *Bulletin of the School of Oriental Studies, University of London*, vol. 8. 2/3, 703–708.
- Renou, L., and J. Filliozat 1947. *L'Inde classique. Manuel des études Indiennes*. I. Paris: Payot.
- Renou, L., and J. Filliozat 1953. *L'Inde classique. Manuel des études Indiennes*. II. Paris: Imprimerie Nationale.

- Rong, Xinjiang, 榮新江, and Valerie Hansen 1999. 'The nature of the Dunhuang library cave and the reason for its sealing'. *Cahiers d'Extrême-Asie* 11, 247–75.
- Rong, Xinjiang, 榮新江, and Imre Galambos (transl.) 2013. *Eighteen lectures on Dunhuang*. Boston: Brill.
- Rossi, V. A. 2007. 'More Khotanese colours'. In M. Macuch, M. Maggi, and W. Sundermann (eds.): *Iranian languages and texts from Iran and Turan*. Wiesbaden.
- Sakaki Ryōzaburō 榊 亮三郎 1916. *Mahāvvyutpatti — Hon'yaku myōgi taishū: Bon-Zō-kan-Wa yon'yaku taikō* 翻譯名義大集: 梵藏漢和四譯對校. Kyoto: Shingonshū Kyōto Daigaku 眞言宗京都大學.
- Salguero, P. C. 2014. 'Buddhism & medicine in East Asian history'. *Religion Compass* 8.8, 239-250.
- Salomon, R. 2007. 'Gāndhārī in the worlds of India, Iran, and Central Asia'. *Bulletin of the Asia Institute, New Series*. 21, 179-192.
- Sander, L. 1986. 'Brāhmī scripts on the Eastern Silk Roads'. *Studien Zur Indologie Und Iranistik* 11-12, 159-192.
- Sander, L. 2005. 'Remarks on the formal brāhmī script from the Southern Silk Route'. *Bulletin of the Asia Institute, New Series*, 19: *Iranian and Zoroastrian Studies in Honor of Profs Oktor Skjærvø*, 133-144.
- Sani, Saverio 2003. 'Il sesamo nell'India antica'. *Studi Linguistici e Filologici Online*. 383-402.
- Sayili, A. M. 1937. 'Turkish medicine'. *Isis* 26.2, 403-14.
- Scharfe, H. 1999. 'The doctrine of the three humours in traditional Indian medicine and the alleged antiquity of Tamil Siddha medicine'. *Journal of the American Oriental Society*, 119.4, 609-629.
- Schluessel, E. 2022. 'KHOTAN'. In K. Fleet, G. Krämer, D. Matringe, J. Nawas, D. J. Stewart (eds.): *Encyclopaedia of Islam, THREE*. Consulted online on 30 January 2023 <http://dx.doi.org/10.1163/2330-4804_EIRO_COM_365009>.
- Selva, U. 2019. 'The study of the Paippalāda recension of the Atharvaveda'. *Kervan – International Journal of Afro-Asiatic Studies*, 23, 199-234.
- Schmitt, Rüdiger 2000. *Die iranischen Sprachen in Geschichte und Gegenwart*. Wiesbaden: Reichert.
- Sharma, P.V. 1996. *Classical uses of medicinal plants*. Varanasi: Chaukambha Visvabharati.

- Sharma, P. V. 1992. *History of medicine in India (from antiquity to 1000 A.D.)*. New Delhi: Indian National Science Academy.
- Sims-Williams, U. 2018. 'Manuscript collectors and collections from the Southern Silk Road'. *Annual Report of the International Research Institute for Advanced Buddhology at Soka University for the Academic Year 2017 XXI*, 273-289.
- Singh, U. 2008. *A history of Ancient and Early medieval India: from the Stone Age to the 12th century*. Pearson.
- Singhal, G. D. et alii 1972-1982. *Diagnostic considerations in ancient Indian surgery (based on Nidāna-Sthāna of Suśruta-Saṃhitā)*, 10 Vols. Varanasi: Singhal Publications.
- Sivarajan, V. V. and I. Balachandran 1994. *Ayurvedic drugs and their plant sources*. New Delhi: Oxford & IBH Publishing.
- Skjærvø, P. O. 1985. 'Khotanese *v-* < Old Iranian **dw-*'. *BSOAS* 48.1, 60-73.
- Skjærvø, P. O. 1987a. 'Aśoka. III. The legend of Aśoka in Khotanese'. In Ehsan Yarshater (ed.): *Encyclopaedia Iranica*, 2. London: Routledge and Kegan Paul, 782-783.
- Skjærvø, P. O. 1987b. 'Aśoka. IV. The legend of Aśoka and the founding of Khotan'. In E. Yarshater (ed.): *Encyclopaedia Iranica*, 2. London: Routledge and Kegan Paul, 783-785.
- Skjærvø, P. O., and E. Yarshater 1991. 'Chinese Turkestan. II. In pre-Islamic times. Iranian religious terms in pre-Islamic Central and Inner Asia'. In E. Yarshater (ed.): *Encyclopaedia Iranica*, 5, 469-471.
- Skjærvø, P. O. 2001. 'An account tablet from eighth-century Khotan'. *Bulletin of the Asia Institute* 15, 1-8.
- Skjærvø, P. O. 2004b. 'Iranians, Indians, Chinese and Tibetans: the rulers and ruled of Khotan in the first millennium'. In S. Whitfield and U. Sims-Williams (eds.): *The Silk Road: trade, travel, war and faith*. Serindia.
- Skjærvø, P. O. 2007. 'A Khotanese amulet'. In M. Macuch, M. Maggi, and W. Sundermann (eds.): *Iranian languages and texts from Iran and Turan*. Wiesbaden.
- Skjærvø, P. O. 2015. 'Early India and Iran'. In M. Stausberg, Y. S. D. Vevaina, and A. Tessmann (eds.): *The Wiley Blackwell Companion to Zoroastrianism*. Wiley Blackwell, 409-421.
- Skjærvø, P. O. 2022. 'Khotan III-IV. The Khotanese language'. In E. Yarshater (ed.): *Encyclopaedia Iranica*, 117-133.

- Slouber, M. J. 2012. *Gāruḍa Medicine: A History of Snakebite and Religious Healing in South Asia*. (Doctoral thesis, University of California, Berkeley, USA). Retrieved from <https://escholarship.org/uc/item/8rz8t2w7>.
- Speziale, F. 2010. 'Ḥilt or Doṣa? The Interpretation of Ayurvedic Theory of Tridoṣa in Early-Modern Persian Texts'. In S. D'Intino and S. Pollock (eds.): *L'espace du sens. Approches de la philologie indienne*. Paris, 84, 431-448.
- Staal, F. 2008. *Discovering the Vedas. Origins, mantras, rituals, insights*. Penguin book.
- Stein, A. M. 1904. *Sand-buried ruins of Khotan. Personal narrative of a journey of archaeological and geographical exploration in Chinese Turkestan*. London: Hurst and Blackett.
- Stein, A. M. 1907. *Ancient Khotan. Detailed report of archaeological explorations in Chinese Turkestan: 1 Text*. Oxford: Clarendon Press.
- Stein, A. M. 1907. *Ancient Khotan. Detailed report of archaeological explorations in Chinese Turkestan, 2 plates*. Oxford: Clarendon Press.
- Stuart, M. J. 2014. 'Mendicants and medicine. Āyurveda in Jain monastic texts'. *History of Science in South Asia* 2, 63-100.
- Takata T. 2000. 'Multilingualism at Tun-huang'. *Acta Asiatica, Bulletin of the Institute of Eastern Culture* 78, 49-70.
- Ṭāme, M. 2020. 'Ayurvedic texts in Khotanese literature'. *The Oriental Studies* 86, 99-117.
- Tedesco, P. M. 1923. 'a-Stämme und aya-Stämme im Iranischen'. *Zeitschrift für Indologie und Iranistik* 2, 281-315.
- Valianthan, M.S. 2002. 'Diseases in ancient India'. In A. Salema (ed.): *Āyurveda at the crossroads of care and cure. Proceedings of the Indo-European Seminar on Āyurveda held at Arrábida, Portugal, in November 2001*. Lisbon: Universidade Nova de Lisboa, 18-23.
- Van Schaik, S. and I. Galambos 2011. *Manuscripts and travellers. The Sino-Tibetan documents of a tenth-century Buddhist pilgrim*. Berlin/Boston: De Gruyter.
- Van Schaik, S. 2016. 'Red faced barbarians, benign despots and drunken masters. Khotan as a mirror to Tibet'. *Revue d'Etudes Tibétaines*, 45-68.
- Van Schaik, S. 2020. *Buddhism magic. Divination, healing, and enchantment through the ages*. Shambhala.

- Vaissière, É. de la 2010. 'Silk, Buddhism and early Khotanese chronology. A note on the *Prophecy of the Li Country*'. *Bulletin of the Asia Institute* n.s. 24, 85-87.
- Vogel, C. 1995. 'Die theoretischen Grundlagen der indischen Medizin'. *Heil und Heilung in den Religionen. Herausgegeben von Karl Hoheisel und Hans-Joachim Klimkeit*. Wiesbaden: Harrasowitz.
- Von Hinüber, O. 2001. *Das ältere Mittelindisch im Überblick*. Wien: Verlag der Österreichischen Akademie der Wissenschaften.
- White, D. G. 1996. *The Alchemical Body: Siddha Traditions in Medieval India*. Chicago.
- White, D. G. 2018. 'Rasāyana'. In A. J. Knut et al. (eds.): *Brill's Encyclopedia of Hinduism Online*. Consulted online on 22 July 2023 <http://dx.doi.org/10.1163/2212-5019_BEH_COM_9000000059>
- Whitfield, S. and U. Sims-Williams (eds.) (2004). *The Silk Road. Trade, travel, war and faith*. Serindia.
- Whitfield, S. 2015. *Life along the Silk Road*. Oakland: University of California Press.
- Winternitz, M. 1983. *A history of Indian literature. Buddhist literature and Jaina literature*. Translated by Satyendranath Sarma, vol. 2. Delhi: Motilal Banarsidass.
- Witzel, M. 1987. 'On the localisation of Vedic texts and schools: materials on Vedic Sakhas, 7'. *Orientalia Lovaniensia Analecta*, 25, 173-213.
- Witzel, M. 2001. 'Autochthonous Aryans? The evidence from Old Indian and Iranian texts'. *Electronic Journal of Vedic Studies*.
- Witzel, M. 1997. *The development of the Vedic canon and its schools: the social and political milieu*. Cambridge.
- Witzel, M. 2009. 'The linguistic history of some Indian domestic plants'. *Journal of BioSciences*, 34.6, 829-833.
- Witzel, M., and Gotō, T. (eds.) 2007. *Rig-Veda: Das heilige Wissen; erster und zweiter Liederkreis*. Verlag der Weltreligionen.
- Witzel, M., Gotō, T., and Scarlata 2013. *Rig-Veda: das heilige Wissen*. Verlag der Weltreligion.
- Wujastyk, D. and F. M. Smith 2008. *Modern and global Ayurveda. Pluralism and paradigms*. Albany: State University of New York Press.
- Wujastyk, D. 2012. *Well-mannered medicine. Medical ethics and etiquette in classical Ayurveda*. Oxford: Oxford University Press.

- Wujastyk, D. 1985. 'Ravigupta and Vāgbhata'. *Bulletin of the School of Oriental and African Studies, University of London* 48.1, 74-78.
- Wujastyk, D. 1995. 'Medicine in India'. In J. V. Alphen and A. Aris (eds.): *Oriental Medicine. An Illustrated Guide to the Asian Arts of Healing*. London: Serindia Publications, 19-37.
- Wujastyk, D. 1998a. 'Science and Vedic studies'. *Journal of Indian Philosophy*, 26.4, 335-345.
- Wujastyk, D. 1998b. 'Medical demonology on the *Kasyapasamhita*'. In K.V. Ramachandran et al. (eds.): *Holistic Life and Medicine*, VI.I, 153-160. Kottakal: Arya Vaidya Sala.
- Wujastyk, D. 1999. 'Miscarriage of justice: demonic vengeance in classical Indian medicine'. In J. R. Hinnells and R. Porter (eds.): *Religion, health and suffering*. London: Kegan Paul International, 256-275.
- Wujastyk, D. 2000. 'The combinatorics of tastes and humours in classical Indian medicine and mathematics'. *Journal of Indian Philosophy* 28.5/6, 479-495.
- Wujastyk, D. 2001. 'The science of medicine'. In G. Flood (ed.): *The Blackwell Companion to Hinduism*. Blackwell, 393-409.
- Wujastyk, D. 2002. 'Cannabis in traditional Indian herbal medicine'. In A. Salema (ed.): *Āyurveda at the crossroads of care and cure. Proceedings of the Indo-European Seminar on Āyurveda held at Arrábida, Portugal, in November 2001*. Lisbon: Universidade Nova de Lisboa, 45-73.
- Wujastyk, D. 2003a. *The roots of Ayurveda. Selections from Sanskrit medical writings* (Rev. ed). New Delhi: Penguin Books.
- Wujastyk, D. 2003b. 'The science of medicine'. In G. Flood (ed.): *The Blackwell Companion to Hinduism* (Wiley Blackwell Companions to Religion). Blackwell, 393-409.
- Wujastyk, D. 2006. 'Wellcome MS Indic δ 27: the Wellcome Suśruta manuscript of Madhusūdana Gupta, nineteenth-century medical communicator, editor, and surgeon'. London: Wellcome collection.
- Wujastyk, D. 2012. 'Sanskrit manuscript collections outside India, with special reference to Āyurveda'. In G. C. Gangadharan (ed.): *Saving India's Medical Manuscripts*. New Delhi: National Mission for Manuscripts, 133-225.
- Wujastyk, D. 2016. 'Models of diseases in Ayurvedic medicine'. *The Routldges History of Diseases*. Routledge, 38-53.

- Wujastyk, D. 2017. 'Models of disease in Ayurvedic medicine'. In Mark Jackson (ed.): *The Routledge History of Disease*. Abingdon: Routledge, 38-53.
- Wujastyk, D. 2022. 'The evidence for hospitals in early India'. *History of Science in South Asia* 10, 1-43.
- Yamashita, T. and M. K. Parameswaran 2015. 'Theory and practice of traditional medicine in India: a case of contact with spider venom'. *eJournal of Indian Medicine* 8, 61-79.
- Zhang, G. and X. Rong 1998. 'A concise history of the Turfan oasis and its exploration'. *Asia Major* 11.2, 13-36.
- Zhang, G. and X. Rong 2008. 'On the dating of the Khotanese documents from the area of Khotan'. *Journal of Inner Asian Art and Archaeology* 3, 149-156.
- Zieme, P. 2007. 'Notes on Uighur medicine, especially on the Uighur Siddhasāra tradition'. *Asian Medicine* 3, 308-322.
- Zimmermann, F. (1987). *The jungle and the aroma of meats. An ecological theme in Hindu medicine* (First published in France under the title *La jungle et le fumet des viandes* © 1982 Editions du Seuil). University of California Press.
- Zysk, K. G. 1983. 'Fever in Vedic India'. *Journal of the American Oriental Society*, vol. 103.3, 617-621.
- Zysk, K. G. 1985a. *Medicine in the Veda. 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*. Delhi: Motilal Banarsidass.
- Zysk, K. G. 1985b. 'Towards the notion of health in the Vedic phase of Indian medicine'. *Zeitschrift der Deutschen Morgenländischen Gesellschaft*, vol. 135.2, 312-318.
- Zysk K. G. 1991. *Asceticism and healing in ancient India. Medicine in the Buddhist monastery*. Delhi: Motilal Banarsidass.

Sitografia

A bibliography of Indian medicine <https://indianmedicine.eldoc.ub.rug.nl/>

GRETIL <http://gretil.sub.uni-goettingen.de/gretil.html>

Khotanese Project <https://khotanese.org/>

Medicinal Plant Names Service (Kew Gardens) <https://mpns.science.kew.org/mpns-portal/>

Meulenbeld Sanskrit Names of Plants

<https://www.sanskrit-lexicon.uni-koeln.de/scans/SNPScan/2020/web/index.php>

The International Dunhuang Project <http://idp.bl.uk/>

The International Plant Names Index <https://www.ipni.org/>

The Linnean Collection <https://linnean-online.org/>

SARIT <https://sarit.indology.info/>

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Handwritten text in an ancient script, likely Pahlavi, on a narrow strip of parchment. The text is arranged in approximately 30 horizontal lines, with some lines containing multiple words or characters. The script is dense and difficult to decipher without specialized knowledge. The parchment shows signs of age, including discoloration and some wear at the edges.

Handwritten text in Devanagari script on a palm leaf manuscript. The text is arranged in approximately 25 horizontal lines, written from right to left. The script is dense and characteristic of traditional Indian manuscripts. The leaf shows signs of age, including some staining and wear at the edges.

Handwritten text in a South Indian script, likely Grantha or Tamil, on a palm leaf manuscript. The text is arranged in approximately 30 horizontal lines across the length of the leaf. The script is finely inscribed and appears to be a form of classical South Indian literature or a religious text. The leaf shows signs of age, with some wear and discoloration.

Handwritten text in Tamil script on a palm leaf manuscript. The text is arranged in approximately 25 horizontal lines across the length of the leaf. The script is dense and characteristic of traditional Tamil inscriptions. The leaf shows signs of age, including some staining and wear.

Handwritten text in Tamil script, likely a manuscript or record, written on aged, yellowed paper. The text is arranged in approximately 25 horizontal lines, with some lines appearing to be part of a list or table, possibly containing names and associated details. The script is dense and characteristic of traditional Tamil writing.

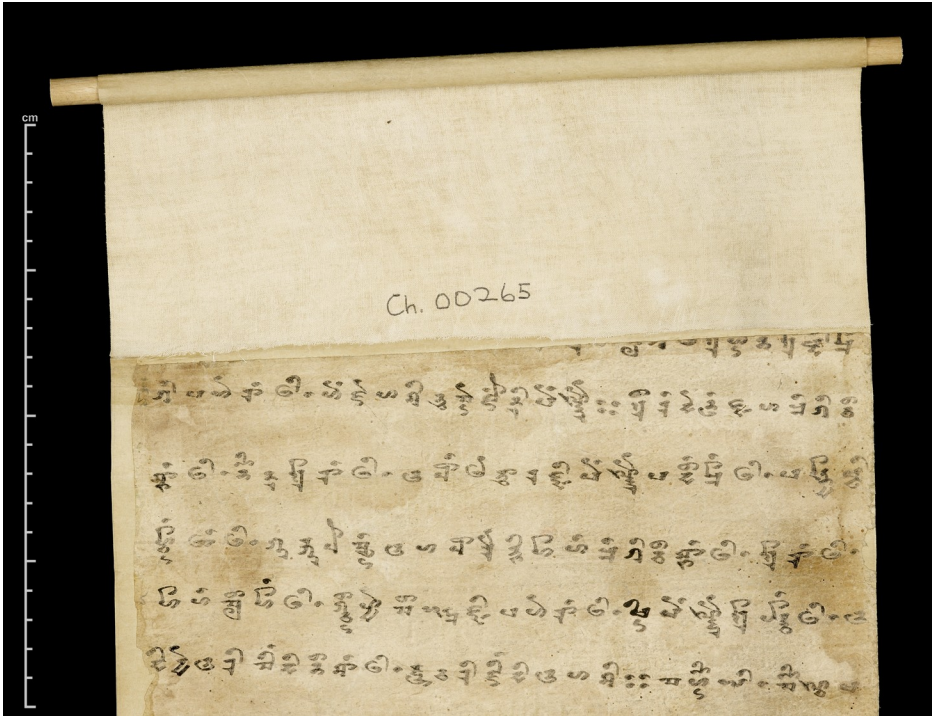
Handwritten text in a South Indian script, likely Grantha or Tamil, on a palm leaf manuscript. The text is arranged in approximately 30 horizontal lines, written in a dark ink. The script is highly stylized and compact. The leaf shows signs of age, with some discoloration and wear, particularly at the edges. The text appears to be a continuous passage, possibly a religious or philosophical treatise, given the nature of such manuscripts. The lines are closely spaced, and the characters are small and uniform in size. There are no visible markings or symbols between the lines of text.

Handwritten text in a South Indian script, likely Grantha or Tamil, on a palm leaf manuscript. The text is arranged in approximately 25 horizontal lines, written in dark ink. The script is highly stylized and compact. The leaf shows signs of age, including some discoloration and wear at the edges. The text appears to be a continuous passage, possibly a religious or philosophical treatise, given the nature of such manuscripts. The lines are closely spaced, and the characters are small and uniform in size. There are some larger characters or symbols interspersed, which might represent specific words or punctuation. The overall appearance is that of a well-preserved but aged historical document.

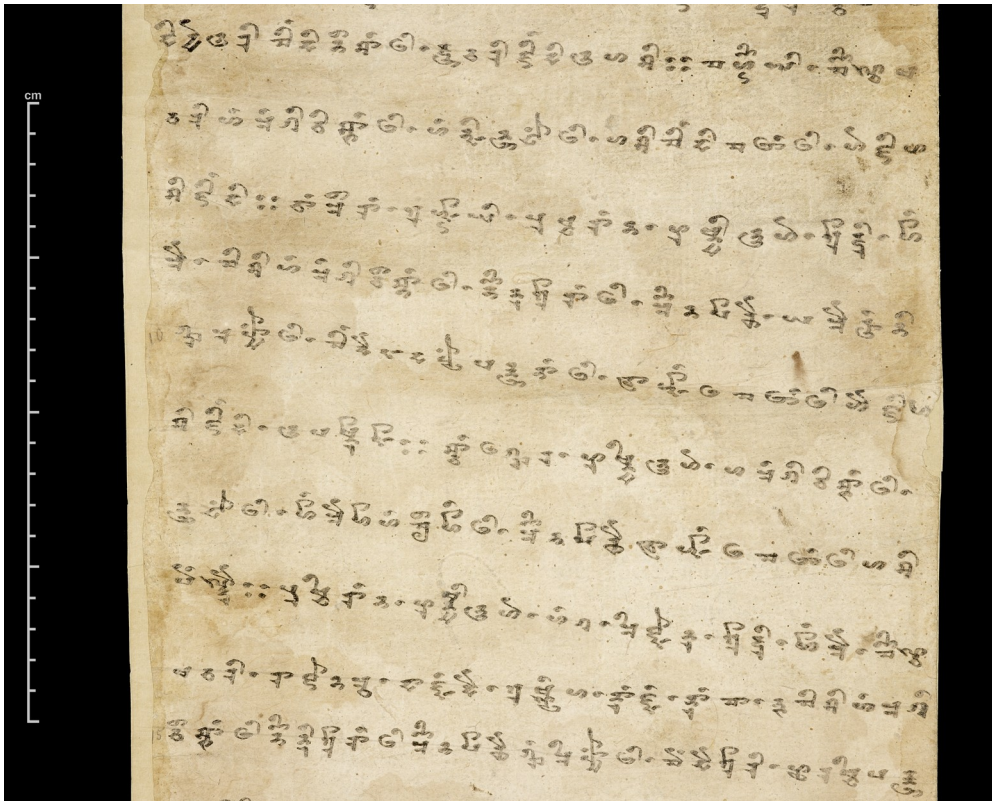
Handwritten text in a script, likely Indic, on a long, narrow strip of paper. The text is arranged in approximately 30 horizontal lines, written from right to left. The script is dense and appears to be a form of Devanagari or a related Indic script. The paper shows signs of age, including some staining and wear.

Handwritten text in a South Indian script, likely Grantha or Tamil, on a palm leaf manuscript. The text is arranged in approximately 30 horizontal lines, written in dark ink. The script is highly stylized and compact. The leaf shows signs of age, with some discoloration and wear, particularly at the edges. The text appears to be a form of liturgical or philosophical writing, given the context of the page number and the nature of such manuscripts.

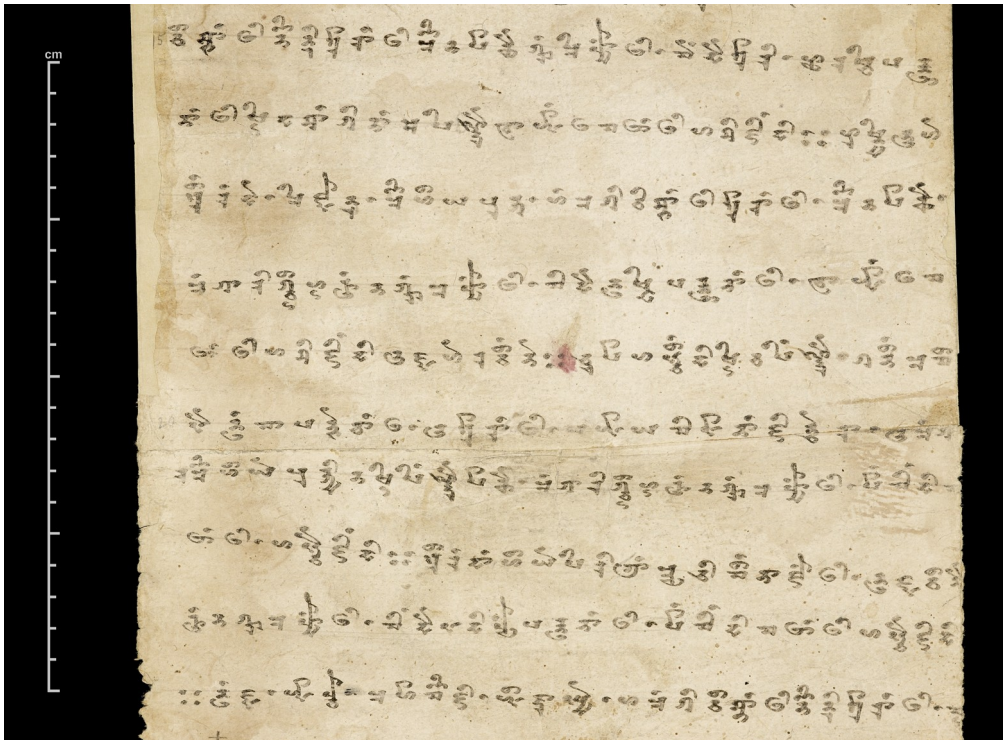
Handwritten text in a script, likely Indic, on a long, narrow strip of aged paper. The text is arranged in approximately 30 horizontal lines, written from right to left. The script is dense and appears to be a form of Devanagari or a related Indic script. The paper is yellowed with age and shows some wear and tear, particularly at the bottom edge.



Ch. 0026, ll. 2-6

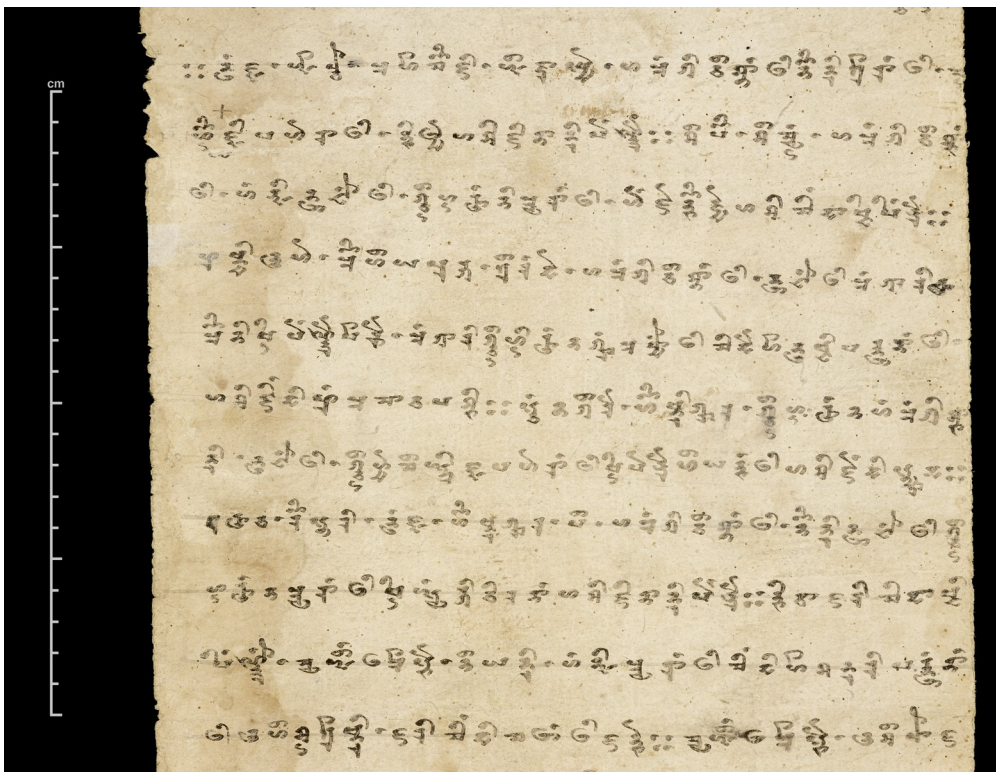


Ch. 0026, ll. 6-15



Handwritten text in a South Indian script, likely Grantha or Tamil, on a palm leaf manuscript. The text is arranged in approximately 12 horizontal lines. A vertical scale on the left side of the leaf is marked in centimeters, ranging from 0 to 10. The script is finely inscribed and shows some signs of age and wear.

Ch. 0026, ll. 15-24



Handwritten text in a South Indian script, likely Grantha or Tamil, on a palm leaf manuscript. The text is arranged in approximately 12 horizontal lines. A vertical scale on the left side of the leaf is marked in centimeters, ranging from 0 to 10. The script is finely inscribed and shows some signs of age and wear.

Ch. 0026, ll. 24-34

Handwritten text in an ancient script, likely Pāli, on a palm leaf manuscript. The text is arranged in approximately 10 horizontal lines. A vertical scale bar on the left side of the leaf is marked with 'cm' and shows a measurement of approximately 10 centimeters. The script is finely etched into the surface of the dried leaf.

Ch. 0026, ll. 34-41

