



COMPARATIVE ANALYSIS ON THE PLANTS MENTIONED FOR DEEPANIYA KARMA IN MADANAPALA NIGHANTU AND BHAVAPRAKASHA NIGHANTU

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ABSTRACT

Agni is an important factor in the biological system of an individual as per Ayurveda. Anything that disturbs it, will lead to many diseases. Hypo-functioning of agni is considered as an aetiology of many diseases. In order to maintain it in an optimum level during the process of digestion and metabolism, a class of drugs called deepaniya dravyas are used. Madanapala nighantu(MPN) and Bhavaprakasha nighantu (BPN) are two important mile stones in evolution of materia medica of Ayurveda. Both are similar in many aspects especially, when it comes to the verse of many plants. On analysing the plants mentioned in both lexicons, MPN has described 64 plants for deepaniya karma. While, BPN has mentioned 100 botanicals from 95 plants. MPN has mentioned 35 plants that possess eka rasa, 22 plants possessing dwika rasa, 6 plants containing trikarasa and 1 drug that possesses panca rasa for deepana karma. In contrast, BPN delineated 47 plants that possess eka rasa, 39 plants possessing dwika rasa, 9 plants containing trika rasa, 4 plants that possess chatvari rasa and 1 drug possessing pancha rasa for deepana karma.

KEYWORDS: Agni, Deepaniya, Appetite stimulant, Nighantu, Rasa vikalpa.

INTRODUCTION

Deepaniya karma is one of the most important pharmacological actions that every physician of Ayurveda look for, while treating a disease. For the reason, Almost all the diseases are the consequence of agnimandya (hypofunction of digestive fire)^[1] Ayurveda believes that Agni (digestive fire) is a paramount factor in maintaining, promoting and sustaining the health of an individual.^[2] The healthy human body is primarily, an appropriate composition of dosha, dhatu and mala.^[3] The food that one eats is the main source of these substance and the conversion of the food in to the useful products for maintaining the equilibrium of the internal environment is brought about by Agni. The optimum activity of Agni protects the individual from falling sick. That is the reason why Agni is the central dogma of all sort of treatment modalities in Ayurveda. Agni is located at three different levels of body viz. Jataragni, Dhatvagni and Bhutagni among which Jataragni plays a pivotal role.^[4] The proper functioning of jataragni is dependent on samana vayu and kledaka kapha. Deepaniya dravya can stimulate agni at any level depending upon its nature and properties. But, more particularly stimulation of Jataragni is appreciated as deepaniya karma in general.^[5]

Largely, the drugs explained in Deepaniya mahakashaya^[6] of Charaka samhita are taken in to

consideration for stimulating the jataragni. Deepaniya mahakashaya of Acharya Charaka contains 10 drugs as an outline for understanding the nature of the drugs that can be used for deepaniya karma. Bhavaprakasha nighantu- another significant work in 16th century, mentions drugs for deepaniya karma. It is observed that Bhavamishra followed Madanapala nighantu in describing many plants. Both lexicons start with Haritaki as the first plant and named the very first class as Haritakyadi varga and Abhayadi varga respectively. Considering the similarity in writing verses of many plants, An attempt is made in this review to compare and contrast the facts on plants used for deepaniya karma in Madanapala nighantu(MPN) and Bhavaprakasha nighantu(BPN).

AIMS AND OBJECTIVES

- To study the drugs mentioned for deepaniya karma in Madanapala nighantu (MPN)
- To compare them with the drugs mentioned in Bhavaprakasha nighantu (BPN)
- To study the difference in the total number of drugs
- To study the ras vikalpa of deepaniya dravyas.

MATERIALS AND METHODS**Materials**

- Bhavaprakasha nighantu commentary by Late Prof. Krishna Chandra Chuneekar, edited by Late Dr. G.S Pandeya, revised and enlarged edition, 2010, Chaukhambha Bharati academy, Varanasi.
- Illustrated Madanapala nighantu written by J.L.N Sastry, First edition, 2010, Chaukhambha orientalia, Varanasi.
- Relevant literature on deepaniya karma.
- Literature on phytochemicals.
- Internet access.

METHODS

- All the botanical source mentioned for deepaniya karma in Madanapala nighantu(MPN) and Bhavaprakasha nighantu(BPN) are collected

- The accepted Botanical name of those source are mentioned in accordance with world flora online
- The total number of plants mentioned for deepana karma in both two lexicons is noted
- The conclusion is drawn on the basis of comparison and contrast analysis.

Inclusion criteria

All the botanicals/plants described with the terms agnikrit/ vahnikrit/ agnivardhini/ deepani/ deepaniya/ deepanam/ Vahnimandyapaha/ Agnimandyapaha/ agnimandyajit are included.

Exclusion Criteria

Drugs obtained from Alkali of different plants, drugs from Animal source, formulations mentioned in mixed classification, preparations mentioned in Krittanna varga and different salts are excluded.

1 a). Eka rasa dravyas mentioned for Deepaniya karma in MPN.

S.No	Plant ^[8]	Scientific name ^[7]	Rasa	Ref(Varga)
01	Guduchi	<i>Tinospora cordifolia</i> (Willd.)Miers ex Hook.f &T	T	Abhayadi, 40
02	Bhanga	<i>Cannabis sativa</i> L.	T	Abhayadi 333
03	Danti	<i>Baliospermum solanifolium</i> (Burm.)Suresh	K	Abhayadi 113
04	Sehunda	<i>Euphorbia neriifolia</i> L.	K	Abhayadi 136
05	Ardra	<i>Zingiber officinale</i> Roscoe	K	Shuntyadi 5-6
06	Maricha	<i>Piper nigrum</i> L	K	Shuntyadi 10
07	Pippali	<i>Piper longum</i> L	K	Shuntyadi 13
08	Chavya	<i>Piper retrofractum</i> Vahl	K	Shuntyadi 19
09	Chitraka	<i>Plumbago zeylanica</i> L	K	Shuntyadi 22
10	Shatapushpa	<i>Anethum graveolens</i> L	K	Shuntyadi 25
11	Mishreya	<i>Foeniculum vulgare</i> Mill	K	Shuntyadi 26
12	Ajamoda	<i>Trachyspermum roxburhianum</i> H.Wolff	K	Shuntyadi 29
13	Yavani	<i>Trachyspermum ammi</i> Sprague	K	Shuntyadi 29
14	Lavanga	<i>Syzygium aromaticum</i> (L.)Merr& L.M Perry	K	Karpuradi 22
15	Kankola	<i>Piper cubeba</i> L.f	K	Karpuradi 23
16	Karchura	<i>Curcuma zedoaria</i> (Christm.)Roscoe	K	Karpuradi 23
17	Nimba	<i>Azadirachta indica</i> A.Juss.	T	Abhayadi 138
18	Sariva	<i>Hemidesmus indicus</i> (L.)R.Br.ex Schult	M	Abhayadi 99
19	Manjistha	<i>Rubia cordifolia</i> L	M	Abhayadi 227
20	Narikela	<i>Cocos nucifera</i> L	M	Phaladi 16
21	Koshamra	<i>Schlecheria oleosa</i> Merr	M	Phaladi 97
22	Valuka	<i>Cucumis melo</i> L	M	Shaka 16
23	Tanduliyaka	<i>Amaranthus spinosus</i> L	M	Shaka 41
24	Madhu shigru	<i>Moringa concanensis</i> Nimmo	M	Shaka 73
25	Beejapuraka	<i>Citrus medica</i> L	A	Phaladi 75
26	Jambira	<i>Citrus limon</i> (L)Osbeck	A	Phaladi 81
27	Amlavetas	<i>Garcinia pedunculata</i> Roxb.ex Buch-Ham	A	Phaladi 82
28	Nimbuka	<i>Citrus aurantifolia</i> (Christn)Swingle	A	Phaladi 84
29	Sheernavrinta	<i>Cucumis melo</i> Var <i>flexuosus</i>	M	Shaka 17
30	Vrintaki	<i>Solanum melongena</i> L	M	Shaka 23
31	Patola	<i>Trichosanthes dioica</i> Roxb	M	Shaka 46
32	Pugaphala	<i>Areca catechu</i> L	Ks	Phaladi 99
33	Bhallataka	<i>Semecarpus anacardium</i> L.f	Ks	Abhayadi 281
34	Guggulu	<i>Commiphora mukul</i> Engl	T	Karpuradi 48
35	Ajagandha	<i>Thymus serpyllum</i> L	K	Shuntyadi 37

[T-Tikta, K-Katu, M-Madhura, A-Amla, Ks-Kashaya]

1. b) Eka rasa dravyas mentioned for Deepaniya karma in BPN.

S.No	Plant ^[9]	Scientific name ^[7]	Rasa	Ref
01	Ardraka	<i>Zingiber officinale</i> Roscoe	K	Haritakyadi, 49
02	Maricha	<i>Piper nigrum</i> L	K	Haritakyadi,60
03	Pippali	<i>Piper longum</i> L	K	Haritakyadi,53,64
04	Gaja pippali	<i>Scindapsus officinalis</i> Schott	K	Haritakyadi,69
05	Chavya	<i>Piper retrofractum</i> Vahl	K	Haritakyadi 67
06	Chitraka	<i>Plumbago zeylanica</i> L	K	Haritakyadi 70
07	Ajamoda	<i>Trachyspermum ammi</i> Sprague	K	Haritakyadi 79
08	Parasika yavani	<i>Hyoscyamus niger</i> L	K	Haritakyadi 80
09	Shweta Jeeraka	<i>Cuminum cyminum</i> L	K	Haritakyadi,84
10	Krishna Jeeraka	<i>Carum carvi</i> L	K	Haritakyadi,84
11	Upakunchika	<i>Nigella sativa</i> L	K	Haritakyadi 84
12	Shatapushpa	<i>Anethum graveolens</i> L	K	Haritakyadi 90
13	Methika	<i>Trigonella foenum-graecum</i> L	K	Haritakyadi,93
14	Vidanga	<i>Embelia ribes</i> Burm.f	K	Haritakyadi, 112
15	Indrayava	<i>Holarrhena pubescens</i> Wall & G.Don	K	Haritakyadi 159
16	Bhanga	<i>Cannabis sativa</i> L	T	Haritakyadi, 234
17	Chukra	<i>Rumex vesicarius</i> L	A	Haritakyadi 260
18	Tankari	<i>Physalis minima</i> L	T	Guduchyadi 134
19	Mesha shringi	<i>Gymnema sylvestre</i> (Retz)R.Br.ex.Sm	T	Guduchyadi 255
20	Karavellaka	<i>Momordica charantia</i> L	T	Shaka,63
21	Karkoti	<i>Momordica dioica</i> Roxb.ex Willd	T	Shaka 86
22	Vrantaka	<i>Solanum melongena</i> L	M	Shaka,80
23	Gokshura	<i>Tribulus terrestris</i> L	M	Guduchyadi 46
24	Sariva	<i>Hemidesmus indicus</i> (L) R.Br ex Schult	M	Guduchyadi 238
25	Krishna sariva	<i>Cryptolepis dubia</i> (Burm.f)M.R.Almeida	M	Guduchyadi 238
26	Narikela	<i>Cocos nucifera</i> L.	M	Amraphaladi,41
27	Kharjura	<i>Phoenix sylvestris</i> (L.)Roxb	M	Amraphaladi,121
28	Tanduliyaka	<i>Amaranthus spinosus</i> L	M	Shaka 13
29	Rajakoshataki	<i>Luffa acutangula</i> Roxb	M	Shaka 68
30	Eranda phala	<i>Ricinus communis</i> L	K	Guduchyadi 66
31	Sehunda	<i>Euphorbia neriifolia</i> Roxb	K	Shaka 37,Gudu74
32	Danti	<i>Baliospermum solanifolium</i> (Burm.) Suresh	K	Guduchyadi 199
33	Brihadanti	<i>Euphorbia fusiformis</i> Buch-Ham ex.D.Don	K	Guduchyadi 199
34	Chikkani	<i>Centipeda minima</i> (L)A.Braun & Asch	K	Guduchyadi, 304
35	Barbari	<i>Ocimum basilicum</i> L	K	Pushpa 71
36	Tuvari	<i>Eruca vesicaria</i> (L) Cav	K	Dhanya 68
37	Rajika	<i>Brassica juncea</i> (L) Czern	K	Dhanya 72
38	Koshamra	<i>Schleichera oleosa</i> Merr	A	Amraphaladi,24
39	Beejapuraka	<i>Citrus medica</i> L	A	Amraphaladi,130
40	Jambira	<i>Citrus lilmon</i> (L) Osbeck	A	Amraphaladi, 135
41	Nimbuka	<i>Citrus aurantifolia</i> (Christn.)Swingle	A	Amraphaladi 136
42	Amlika	<i>Tamarindus indica</i> L	A	Amraphaladi,143
43	Amlavetasa	<i>Garcinia pedunculata</i> Roxb.ex Buch-Ham	A	Amraphaladi,144
44	Vrikshamla	<i>Garcinia indica</i> (Thouars)Choisy	A	Amraphaladi,149
45	Changeri	<i>Oxalis corniculata</i> L	A	Shaka, 24
46	Patola	<i>Trichosanthes dioica</i> Roxb	T	Shaka, 40
47	Saptaparna	<i>Alstonia scholaris</i> R.Br	Ks	Vatadi 75

[T-Tikta,K-Katu,M-Madhura,A-Amla,Ks-Kashaya]

2 a). Dwika rasa dravyas mentioned deepaniya karma in MPN.

S.No	Plant ^[8]	Scientific name ^[7]	Rasa	Ref(Varga)
01	Shobhanjan	<i>Moringa oliefera</i> Lam	K,T	Shaka 72
02	Shyonaka	<i>Oroxylum indicum</i> (L.) Benth.ex Kurz	Ks, M	Abhayadi 55
03	Kantakari	<i>Solanum virginianum</i> L	T,K	Abhayadi 58
04	Jatiphala	<i>Myristica fragrans</i> Houtt	T,K	Karpuradi 33
05	Talisha	<i>Abies spectabilis</i> (D.Don)Mirb	T,K	Karpuradi 18
06	Tulasi	<i>Ocimum tenuiflorum</i> L.	T,K	Karpuradi 107
07	Marubaka	<i>Origanum majorana</i> L	T,K	Karpuradi 108
08	Peelu	<i>Salvadora persica</i> L	T,K	Shaka 86
09	Apamarga	<i>Achyranthes aspera</i> L	K,T	Abhayadi 107
10	Tejovati	<i>Zanthoxylum armatum</i>	K,T	Abhyadi 190
11	Jyotishmati	<i>Celastrus paniculatus</i> Willd	K,T	Abhayadi 191
12	Vacha	<i>Acorus calamus</i> L	K,T	Shuntyadi 39
13	Vidanga	<i>Embelia ribes</i> Burm.f	K,T	Shuntyadi 43
14	Grinjana	<i>Daucus carota</i> L	K,T	Shaka 65
15	Bilva	<i>Aegle marmelos</i> (L.)Corrêa	Ks, T	Abhayadi 43
16	Varuna	<i>Crateva magna</i> DC	Ks,T	Vatadi 45
17	Kutaja	<i>Holarrhena pubescens</i> Wall & G.Don	K,Ks	Abhayadi 146
18	Surana	<i>Amorphophallus paeoniifolius</i> (Dennst)	Ks,K	Shaka 80
19	Changeri	<i>Oxalis corniculata</i> L	A,Ks	Shaka 63
20	Kushmanda	<i>Benicia hispida</i> Cogn	M,Kshara	Shaka 05
21	Chilli	<i>Chenopodium murale</i> L	M,Kshara	Shaka 37
22	Valaka	<i>Pavonia zeylanica</i> (L.)Cav	T,M	Karpuradi 27

[T-Tikta,K-Katu,M-Madhura,A-Amla,Ks-Kashaya]

2 b). Dwika rasa dravyas mentioned deepaniya karma in BPN.

S.No	Plant ^[9]	Scientific name ^[7]	Rasa	Ref
01	Yavani	<i>Trachyspermum ammi</i> Sprague	K,T	Haritakyadi, 77
02	Vacha	<i>Acorus calamus</i> L	K,T	Haritakyadi,103
03	Tejovati	<i>Zanthoxylum armatum</i> DC	K,T	Haritakyadi, 170
04	Jyotishmati	<i>Celastrus paniculatus</i> Willd	K,T	Haritakyadi, 172
05	Ativisha	<i>Aconitum heterophyllum</i> Wall.	K,T	Haritakyadi, 214
06	Karchura	<i>Curcuma zedoaria</i> (Christm.)Roscoe	K,T	Karpuradi,95
07	Hapusha	<i>Juniperus communis</i> L	T,Ks	Haritakyadi, 110
08	Jatiphala	<i>Myristica fragrans</i> Houtt	T,K	Karpuradi,54
09	Katuki	<i>Picrorhiza kurroa</i> Royle ex Benth	T,K	Haritakyadi, 152
10	Bhallataka	<i>Semecarpus anacardium</i> L.f	M,K	Haritakyadi 232
11	Balaka	<i>Pavonia zeylanica</i> (L.)Cav	T,Ks	Karpuradi, 83
12	Vartaki	<i>Solanum violaceum</i> Blume	K,T	Guduchyadi,37
13	Arka	<i>Calotropis procera</i> (Aiton) Dryand	K,T	Guduchyadi 70
14	Bhustrina	<i>Cymbopogon citratus</i> Stapf	K,T	Guduchyadi,170
15	Marubaka	<i>Origanum majorana</i> L	K,T	Pushpa 65
16	Nimba	<i>Azadirachta indica</i> A. Juss	T,Ks	Guduchyadi 94
17	Akashavalli	<i>Cuscuta reflexa</i> Roxb	T,Ks	Guduchyadi 259
18	Kushmanda	<i>Benincasa hispida</i> Cogn	M, Kshar	Shaka
19	Kutaja	<i>Holarrhena pubescens</i> Wall.&G.Don	K,Ks	Guduchyadi 118
20	Shweta punarnava	<i>Trianthema portulacastrum</i> L	K,Ks	Guduchyadi 223
21	Jala pippali	<i>Phylla nodiflora</i> (L.)Greene	K,Ks	Guduchyadi 296
22	Vastuka	<i>Chenopodium album</i> L	M,Kshar	Shaka 07
23	Lonika	<i>Portulaca oleracea</i> L	L,A	Shaka 21
24	Kushmandi	<i>Cucurbita pepo</i> L	T,Kshara	Shaka 56
25	Shatavari	<i>Asparagus racemosus</i> Willd	T,M	Guduchyadi 186
26	Granthiparni	<i>Polygonum aviculare</i> L	T,K	Karpuradi 108
27	Kantakari	<i>Solanum virginianum</i> L	T,K	Shaka 89,Gudu 40
28	Apamarga	<i>Achyranthes aspera</i> L	T,K	Guduchyadi 220
29	Kemuka	<i>Hellenia speciosa</i> (J.Koenig)Govaerts	T,K	Shaka 111
30	Talisha patra	<i>Abies spectabilis</i> (D.Don)Mirb	T,M	Karpuradi,115

31	Bilva	<i>Aegle marmelos</i> (L) Corrêa	Ks,T	Amraphaladi,57
32	Shyonaka	<i>Oroxylum indicum</i> (L.)Benth. ex Kurz	Ks,T	Guduchyadi 26-27
33	Shobhanjana	<i>Moringa oleifera</i> Lam	M,Ks	Shaka 78
34	Granjana	<i>Allium ascalonicum</i> L	M,T	Shaka 104
35	Surana	<i>Amorphophallus paeonifolius</i> (Dennst)Nicolson	Ks,K	Shaka 91
36	Tumburu	Dried fruit of <i>Zanthoxylum armatum</i> DC	T,K	Haritakyadi 114
37	Renuka	Seeds of <i>Vitex agnus- castus</i> L	T,K	Karpuradi 106
38	Tulasi	<i>Ocimum tenuiflorum</i> L	K,T	Pushpa 63

[T-Tikta,K-Katu,M-Madhura,A-Amla,Ks-Kashaya,L-Lavana]

3 a). Trika rasa dravyas mentioned for Deepaniya karma in MPN.

S.No	Plant ^[8]	Scientific name ^[7]	Rasa	Ref(Varga)
01	Musta	<i>Cyperus rotundus</i> L	K,T,Ks	Abhayadi, 212
02	Hapusha	<i>Juniperus communis</i> L	K,T,Ks	Shuntyadi 40
03	Palasha	<i>Butea monosperma</i> (Lam) Taub	K,T,Ks	Vatadi 39
04	Vikantak	<i>Flacourtia indica</i> (Burm.f)Merr	M,A,Ks	Phaladi1-2
05	Varahikanda	<i>Dioscorea bulbifera</i> L	M,K,T	Abhayadi 221
06	Bola	<i>Commiphora myrrha</i>	T,K, Ks	Suvarnadi 45

[T-Tikta,K-Katu,M-Madhura,A-Amla,Ks-Kashaya]

3 b). Trika rasa dravyas mentioned for Deepaniya karma in BPN.

S.No	Plant ^[9]	Scientific name ^[7]	Rasa	Ref
01	Dhanyaka	<i>Coriandrum sativum</i> L	Ks,T,K	Haritakyadi, 87
02	Bharangi	<i>Rothea serrata</i> (L.)Steane &Mabb	K,Ks,T	Haritakyadi, 183
03	Guggulu	<i>Commiphora mukul</i> Engl	T,Ks,K	Karpuradi 39
04	Musta	<i>Cyperus rotundus</i> L	K,T,Ks	Karpuradi 93
05	Bola	<i>Commiphora myrrha</i> Engl	M,K,T	Dhatvadi 160
06	Guduchi	<i>Tinospora cordifolia</i> (Willd.)Mers ex Hook.f& Thomson	K,T,Ks	Guduchyadi 09
07	Bala Bilva	<i>Aegle marmelos</i> (L.)Corrêa	K,T,Ks	Guduchyadi 13
08	Gambhari	<i>Gmelina arborea</i> Roxb	K,T,M	Guduchyadi 16
09	Vridhdadaruka	<i>Argyrea nervosa</i> (Burm.f) Bojer	Ks,K,T	Guduchyadi, 1

[T-Tikta,K-Katu,M-Madhura,A-Amla,Ks-Kashaya]

4 a). Chatvara rasa dravyas mentioned for deepaniya karma in MPN.

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4 b). Chatvara rasa dravyas mentioned for deepaniya karma in BPN.

S.No	Plant ^[9]	Scientific name ^[7]	Rasa	Ref
01	Shigru	<i>Moringa oleifera</i> Lam	K,M,T,Kshara	Guduchyadi 106
02	Madhu shigru	<i>Moringa concanensis</i> Nimmo	K,M,T,Kshara	Guduchyadi 108
03	Agnimantha	<i>Premna mollissima</i> Roth	K,T,Ks,M	Guduchyadi 24
04	Varuna	<i>Crateva magna</i> DC	Ks,M,T,K	Vatadi 66

[T-Tikta,K-Katu,M-Madhura,A-Amla,Ks-Kashaya]

5 a.)Pancha rasa Dravyas mentioned for Deepaniya karma in MPN.

S.No	Plant ^[8]	Scientific name ^[7]	Rasa	Ref
01	Haritaki	<i>Terminalia chebula</i> Retz	Ks,A,M,T,K	Abhayadi 22

[T-Tikta,K-Katu,M-Madhura,A-Amla,Ks-Kashaya]

5 b.)Pancha rasa Dravyas mentioned for Deepaniya karma in BPN.

S.No	Plant ^[9]	Scientific name ^[7]	Rasa	Ref
01	Haritaki	<i>Terminalia chebula</i> Retz	Ks,A,M,T,K	Haritakyadi,19

[T-Tikta,K-Katu,M-Madhura,A-Amla,Ks-Kashaya]

DISCUSSION

The term Deepaniya is used to refer an action that is needed to keep the digestive fire in an optimum condition. Deepana dravyas are mainly used to treat the

conditions caused by hypo functioning of agni such as gulma, udara, shoala and atisara. These dravyas promote the appetite. Madanapala nighantu has been authored during 14th century. While, Bhavaprakasha nighantu is

written during 16th century. It is observed that many verses of Madanapala nighantu have appeared in Bhavaprakash nighantu with or without any modification. A total number of 64 plants have been described for deepana karma in MPN. While, a total number of 95 plants are described for deepana karma in BPN. But, few plants are mentioned more than once in different classes. For instance, Shigru has been described twice. Similarly, Kutaja and its seeds (Indrayava), Tejovati and its fruit (Tumburu), Bilva and its unripe fruit find places in two different classes. With this, total number of botanicals for deepana karma explained in BPN rises to 100.

On Morphology

On analysing all the plants mentioned for deepana karma in MPN, it is found that 25 trees, 3 shrubs, 23 herbs and 13 climbers are advised. On the other hand, BPN has described 29 trees, 3 shrubs, 46 herbs and 18 climbers that possess deepana karma. The trees which are appreciated for deepana karma by BPN in addition to the trees mentioned by MPN except Lavanga, Peelu, Palasha and Vikantaka are Kharjura, Vrikshamla, Saptaparna, Eranda and Agnimantha. Both MPN and BPN included same shrubs for deepana activity (Vidanga, Sehunda and Bola). BPN has included all herbs mentioned in MPN except Mishreya, Ajagandha and Chilli for deepana karma. It incorporated another 26 herbs that are not appreciated for deepana activity by MPN. BPN included all the climbers mentioned in MPN for deepaniya karma except Kankola, Manjistha, Sheerna vrinda and Varahikanda. BPN incorporated Akashavalli, Shatavari, Kushmandi, Vriddhadaruka, Rajakoshataki karavellaka, Karkoti, Meshashringi and Gajapipali.

On Rasa vikalpa: Both lexicons have described the plants that possess eka rasa, dwika rasa, trika rasa and pancha rasa for deepana karma. While, the plants with chatvari rasa are found in BPN in addition. MPN has mentioned 35 plants that possess eka rasa, 22 plants possessing dwika rasa, 6 plants containing trikarasa and 1 drug that possesses panca rasa for deepana karma. In contrast, BPN delineated 47 plants that possess eka rasa, 39 drugs possessing dwika rasa, 9 plants containing trika rasa, 4 plants that possess chatvari rasa and 1 drug possessing pancha rasa for deepana karma. On analysing further, it is found out that drugs with eka rasa as Katu, Dwika rasa as katu- tikta rasa and trika rasa as katu-tikta-kashaya are highly appreciated for deepana karma by both lexicons. MPN explained 15 katu rasa dravyas, 7 katu-tikta rasa dravyas, and 3 katu-tikta- kashaya rasa dravyas. While, BPN has delineated 23 katu rasa dravya, 11 katu tikta rasa dravyas, and 3 katu tikta kashaya dravyas for deepana karma.

On Varga: MPN described the plants for deepaniya karma in 7 vargas. Of these, highest number of deepaniya dravyas are found in Abhayadi varga where it explained 18 plants, followed by Shuntyadi varga where in 13 deepaniya dravyas find the place. While, the author

of BPN has mentioned highest number i.e 29 deepaniya dravyas in Haritakyadi varga, followed by Guduchyadi varga with 28 plants for deepana karma. Surprisingly, MPN and BPN have included the plant Bol in Suvarnadi and Dhatvadi varga respectively.

CONCLUSION

MPN and BPN have contributed a lot the development of therapeutics of Ayurveda. Agni being a crucial factor in maintaining the health of an individual. Its needs a proper attention when anything disturbs its function. The use of Deepaniya dravyas is the central dogma of therapeutic approach. MPN has mentioned 64 botanical source for deepana activity. While, BPN has quoted 95 plants for augmenting the activity of digestive fire. From phytochemical perspective, many of them contain aromatic oil, some of them contain bitter principles such alkaloids and while others have glycosides as their main chemical composition. These Deepaniya dravyas possibly act in the same way as that of appetite stimulants/ orexigenics. Many pathways and receptors are described in modern pharmacology to explain how appetite stimulants work. This article will help the researchers to contemplate on orexigenic activity on sufficient number of plants in this article.

Conflicts of Interest: None.

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