

UNLOCKING THE PRINCIPLES AND APPLICATIONS OF *EKAMULIKA PRAYOGA* IN
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ABSTRACT

Ayurveda, the science of life, emphasises holistic healing through plant-based remedies. *Ekamulika Prayoga*, the use of single herbs, is valued for its simplicity and efficacy. The term combines *eka* (one) and *mulika* (herb), indicating single-drug formulations, often used with *anupana* or *sahapana*. Detailed in *Dravyaguna Vijnana*, these herbs are classified by *Rasapanchaka* and therapeutic uses. *Shalaky Tantra* one of the 8 branches of *ayurveda*, have numerous *ekamulika prayogas* explained for treating *netra*, *nasa*, *karna*, *mukha*, *kantha* and *shiro vikaras*, by administering the drugs orally as well as through various therapeutic procedures like *kriyakalpa*, *nasya*, *karnapoorana*, *kavala*, *gandhusa* and *murdhni taila*. In this conceptual study *ekamulika prayogas* of plant origin with their *raspanchaka*, its used parts, phytochemicals, pharmacological action, dose and dosage form of each herb are compiled from various authentic ayurvedic texts. It highlights the potency of *ekamulika prayoga* in attaining both *swasthya rakshanarth* (prevention aspect) and *vikara prashamanartha* (curative aspect).

KEYWORDS: *Ekamulika, Shalaky, Kriyakalpa, Murdhni taila, Karnapoorana.***INTRODUCTION**

In recent years, traditional medicine has garnered significant attention worldwide for its holistic approach to health and the vast therapeutic potential of its plant-based remedies, with single herb preparations (*ekamulika prayoga*) being particularly favoured for their simplicity and efficacy. The word *Ekamulika* comprises 2 words *eka* means single, *mulika* means root. Therefore, *ekamulika prayoga* can be interpreted as single herb formulation or single herb formulation with *anupana*(adjunct) or *sahapana*(drinking together). *Ayurveda*, the science of life is an extensively documented system of medicine. The complete knowledge of the *mulikas* are explained in the broad umbrella of ayurvedic texts as *dravyaguna vignana*. It primarily focuses on the *rasapanchaka*, *prayoga* of the *dravyas*, thereby unlocking the pharmacological and therapeutic properties of each *dravya*.

Ekamoolika Prayoga, the practice of using a single herb for disease prevention and management, finds its origin

in ancient Vedic literature like *Rigveda* and *Atharvaveda* and is well-documented in our classical texts like *Sushruta Samhita*, *Charaka Samhita*, *Astanga Sangraha* & *Hridaya* and various *Nighantus* (Ayurvedic pharmacopoeias). This approach emphasizes the potent effects of individual *Dravyas*. *Shalaky tantra* which is one among the 8 branches of *ayurveda*, has numerous *ekamulika prayogas* which have been explained for treating *netra*(eyes), *karna*(ears), *nasa*(nose), *kanta*(throat), *mukha*(oral cavity) and *shiro*(head) *rogas*. These drugs are administered orally and through various therapeutic procedures like *kriyakalpa*, *nasya*, *karnapoorana*, *kavala*, *gandusha* and *murdhni taila*. *Acharya Charaka* while explaining the importance of *yukti pramana*, states that in this vast nature, nothing exists devoid of medicinal or therapeutic value, and it is the physician's skillful *yukti* that unlocks the hidden potential of each *dravya*, revealing its true therapeutic properties.^[1]

So in this conceptual study *ekamulika prayogas* of plant origin with their *raspanchaka* (five factors of a *dravya*), its used parts, phytochemicals, pharmacological action, dose and dosage form of each herb are compiled from various authentic ayurvedic texts. The rich biodiversity of India, where everyday kitchen ingredients like *Haridra* (turmeric), *Shunthi* (dry ginger), *Shigru* (Drumstick) and many more *dravyas* possess potent medicinal properties. The revival of *Ekamoolika Prayoga* offers a promising path for modern, evidence-based Ayurveda. By reconnecting with this ancient wisdom, we can foster sustainable, personalised healthcare that honours the natural world.

AIMS AND OBJECTIVES

To evaluate the *ekamulika prayogas* explained in *shalakya tantra* for preventive and therapeutic aspects through Ayurvedic perspective.

MATERIALS AND METHODS

- Classical Ayurvedic textbooks such as *Sushruta Samhitha*, *Caraka Samhitha*, *Astanga Sangraha*, *Astanga*

Hridaya, *Harita Samhitha*, *Kashyapa Samhitha*, *Bhaishajya ratnavali*, *Chakradatta*, *Vangasena*, *Gada nigrha* and *Sharangadhara Samhitha* were reviewed for documenting the information on *ekamulika prayogas* in *shalakya tantra*.

- All the classical *ayurvedic* were reviewed for documenting *rasapanchaka*, parts used and dosage form and there by understanding the mode of action of each *dravya*.

- A thorough review of the research articles and published literature were done using online scientific search engines.

EKAMULIKA PRAYOGA IN SHALAKYA TANTRA

The single-drug administration of various herbal drugs, which are used in treating various eye, nose, ear, throat & head diseases, is presented in a tabular format, including details such as the part used, form, procedure, indications (disease) and classical references.

SL No	DRAVYA	PART USED	FORM	PROCEDURE	DISEASE	REFERENCE
1	AMALAKI	Fruit	Swarasa	Akshi purana	Netra abhishyanda, Navadrik kopa	G.N 370 Ch.D 59/5
		Fruit	Kalka	Pindi	Pittaja abhishyanda	Y.R 368 Sh.S.13/27
		Fruit+ Leaves	Raskriya	Anjana	Praklinna vartma	Su.U 12/49
		Fruit	Payasa	Payasa	Timira	Su.U 17/49
		Fruit	Swarasa	Shira snana	Param Dristi Balapradha	Van 289 Y.R 241
		Seed	Kashaya	Aschyotana	Netra shoola	Tiruka 44/20
		Fruit	Kashaya	Kavala	Danta shoola, Dantamoola shotha	Tiruka 46/1
		Leaves	Kashaya	Kavala	Aasyapaka	Tiruka 47/55
		Fruit	Churna + Ghruta bhrusta	Bidalaka	Vata Netrashoola	C.Ci. 26/233
		Fruit	Churna + Ghruta bhrusta	Vidalaka	Netra ruja hara	C.Ci.26/233
2	HARITAKI	Fruit	Churna	Orally with Guda	Pratishyaya	K.S.Pratishyaya chikitsa
		Fruit	Kashaya	Orally with Madhu	Kanta roga	A.H.U.22/55
		Fruit	Kashaya	Kavala	Asyapaka	Tiruka 47/32
		Seed	Kalka+ Madhu	Anjana	Krishnagata roga	Su.U.12/33
3	VIBHITAKI	Seed	Taila	Taila	Keshya	A.H.S.5/60
		Root	Churna + madhu	Avapeedana nasya	Ardhavabhedaka	Su.U.26/33
		Root	Churna + Ksheera+ Ghruta	Orally as payasa	Pittaja swarabhanga	Su.U.53/13
4	YASTIMADHU	Root	Ghruta	Seka	Sadhya harati vedana in Upapakshma	Van.558
		Bark	Churna + ghruta brista	Bidalaka	Vataja abhishyanda	C.Ci.26/233
5	LODRA	Bark	Churna + ghruta brista in dola yantra	Seka with kashaya	Parama shoola hara	A.H.U 16/32

		Bark	<i>Arka</i>	<i>Aschyotana</i>	<i>Chakshushya</i>	<i>Arka Prakasha</i> 3/39
		<i>Panchang</i>	<i>Churna+ Ghrita</i>	<i>Anjana</i>	<i>Netrapushpa hara</i>	G.N.483
		<i>Panchang</i>	<i>Churna+ Madhu</i>	<i>Anjana</i>	<i>Ashrupata hara</i>	G.N.483
		<i>Panchang</i>	<i>Churna+ Kanji</i>	<i>Anjana</i>	<i>Naktandya hara</i>	G.N.483
6	<i>PUNARNAVA</i>	<i>Panchang</i>	<i>Churna+ Ksheera</i>	<i>Anjana</i>	<i>Kanduhara</i>	Y.R. <i>Netraroga Chikitsa</i> 194
		<i>Panchang</i>	<i>Churna + Madhu</i>	<i>Anjana</i>	<i>Netrasaada</i>	Y.R. <i>Netraroga Chikitsa</i> 194
		<i>Panchang</i>	<i>Churna + Taila</i>	<i>Anjana</i>	<i>Timira</i>	Y.R. <i>Netraroga Chikitsa</i> 194
		<i>Panchang</i>	<i>Arka</i>	<i>Aschyotana</i>	<i>Sarva netraroga hara</i>	<i>Arka Prakasha</i> 3/77
7	<i>HARIDRA</i>	Rhizome	<i>Ghrita</i>	<i>Tarpana</i>	<i>Nimesha</i>	G.N.356
		Rhizome	<i>Kalka</i>	<i>Kavala</i>	<i>Asyapaka</i>	<i>Tiruka</i> 47/62
		Rhizome	<i>Churna +Jala</i>	<i>Netra Prakshalana</i>	<i>Netra daha</i>	<i>Tiruka</i> 44/5
8	<i>DARUHARIDRA</i>	Root bark	<i>Kashaya + madhu</i>	<i>Seka</i>	<i>Sarva dosha prakupita netra, Sarvabhishyanda</i>	A.H.U.16/8
		Root bark	<i>Rasakriya + madhu</i>	<i>Muka pratisarana</i>	<i>Sarva mukha roga hara</i>	C.Ci 26/202
		Root bark	<i>Rasanjana</i>	<i>Anjana once in 5 or 8 days</i>	<i>Sravanartha</i>	C.Su.5/15
		Root bark	<i>Arka</i>	<i>Lepa</i>	<i>Netra roga Karna roga</i>	<i>Arka Prakasha</i> 3/37
		<i>Rasanjana</i>	<i>Arka</i>	<i>Aschyotana</i>	<i>Netra vikara</i>	<i>Arka Prakasha</i> 3/37
		Tender leaves	<i>Swaras</i>	<i>Aschyotana</i>	<i>Sannipataja netra roga</i>	Y.R. <i>Netraroga Chikitsa</i> .364
		Tender leaves	<i>Swaras</i>	<i>Seka</i>	<i>Sarva netra rujapaha</i>	G.N.142 Vrn.M 61/40
		Tender leaves	<i>Kalka</i>	<i>Pindi</i>	<i>Kaphaja abhishyanda</i>	Y.R. <i>Netraroga Chikitsa</i> 374
9	<i>SHIGRU</i>	Tender leaves	<i>Jala</i>	<i>Sweda</i>	<i>Kaphaja timira</i>	A.S.U 16/19
		Exudate	<i>Taila</i>	<i>Karna purana</i>	<i>Karna shoola</i>	Vrn.M 59/6
		Tender leaves	<i>Swarasa + Guda</i>	<i>Nasya</i>	<i>Shirashoola</i>	H.S.3-40-21
		Leaves	<i>Arka</i>	<i>Aschyotana</i>	<i>Netrya</i>	<i>Arka Prakasha</i> 3/58
		Leaves	<i>Arka</i>	<i>Nasya</i>	<i>Shirashoola</i>	<i>Arka Prakash</i> 3/58
		Rhizome	<i>Swarasa</i>	<i>Karna purana</i>	<i>Karna shoola</i>	Su.U 21/17
10	<i>ARDRAKA</i>	Rhizome	<i>Kalka + Guda</i>	<i>Nasya</i>	<i>Shirashoola</i>	B.R 33
		Rhizome	<i>Ksheerapaka</i>	Orally	<i>Nava pratishyaya</i>	Su.U 24/19
		Rhizome	<i>Kalka + Guda</i>	Orally	<i>Pratishyaya</i>	Su.U 24/18
11	<i>GUDUCHI</i>	Leaves	<i>Swarasa + kshoudra+ saindhava</i>	<i>Anjana</i>	<i>Arma,Pilla roga, Timira, Kacha, Kandu, Liganasha</i>	Sh.S.U 13/98
		Rhizome+ leaves	<i>Ghrita</i>	<i>Aschyotana</i>	<i>Kukkunaka</i>	Su.U 19/13
		Seeds	<i>Kalka + Saindhava</i>	<i>Gharshana</i>	<i>Danta roga</i>	H.S.45
12	<i>SARSHAPA</i>	Seeds	<i>Taila</i>	<i>Karna purana</i>	<i>Karna shoola, Kshweda, Nada, Bhadhirya</i>	Su.U 21/54 A.H.U 18/25 B.P. 64/37
		Seeds	<i>Kalka</i>	<i>Kavala</i>	<i>Kaphaja kantaka, Jihwa kantaka</i>	Ca.D.56/4 Vrn.M.98/45
		Seeds	<i>Kalka</i>	<i>Shirolepa</i>	<i>Kaphaja pratishyaya</i>	A.H.U 20/13

		Leaves	<i>Ghrita lipa shikhi tapta Swarasa</i>	<i>Karna purana</i>	<i>Karna shoola</i>	B.P 64/33
13	ARKA	Root	<i>Taila</i>	<i>Karnapurana</i>	<i>Karna shoola</i>	Ch.D 11/40
		Stem	<i>Churna</i>	<i>Dhupana</i>	<i>Dantaharsha</i>	Tiruka 46/37
14	PALASHA	Flower	<i>Swarasa</i>	<i>Anjana</i>	<i>Raktaja Abhishyanda</i>	Su.U 12/49
		Seed	<i>Swarasa + ghrita bhrista</i>	<i>Anjana</i>	<i>Netra vrana</i>	Tiruka 44/134
		Leaves	<i>Taila</i>	<i>Karnapurana</i>	<i>Putikarna</i>	G.N 3-2-63 Vrn.M 51/41
15	JAATI	Flower	Flower	<i>Akshi bandhana</i>	<i>Netra prasadana</i>	A.H.U 24/21
		Leaves	<i>Churna</i>	<i>Avachurnana</i>	<i>Mukhapaka</i>	B.P
16	ERANDA	Seed	<i>Tail + Ksheera</i>	Orally	<i>Vataja Timira</i>	Su.U 17/29
17	GUGGULU	Resin	<i>Dhuma</i>	<i>Karna dhupana</i>	<i>Karna dourgandya hara</i>	Su.U 21/53 Vrn.M 59/46
18	TULASI	<i>Panchanga</i>	<i>Kashaya</i>	<i>Nasya</i>	<i>Peenasa</i>	Tiruka 45/60
19	PUNDARIKA	Flower	<i>Ksheerapaka</i>	<i>Seka</i>	<i>Akshipaka</i>	Van,Netraroga 200
20	KATPHALA	Root bark	<i>Churna</i>	<i>Greya prayoga</i>	<i>Kaphaja shiroroga</i>	Su.U 26/21
21	DHANYAKA	Seed	<i>Kashaya</i>	<i>Seka</i>	<i>Netra daha , Raga</i>	Tiruka 44/4
		Leaves	<i>Kalka</i>	<i>Shirolepa</i>	<i>Indralupta</i>	Tiruka 42/119
22	BILWA	Leaves	<i>Kalka</i>	<i>Bidalaka</i>	<i>Netra shoola Netra shotha</i>	Tiruka 44/18
23	VARTAKA	Fruit	<i>Fruit + Sarshapa taila</i>	<i>Karna dhupana</i>	<i>Krimi karna</i>	Su.U 21/49
24	TILA	Seed	Seed	<i>Charvana</i>	<i>Chaladanta</i>	Ch.D 56/4
		Seed	<i>Kalka + Jala = Ksheera</i>	<i>Gandusha</i>	<i>Vataja Mukharoga</i>	Sh.S.U.10/8
25	KATAKA	Fruit	<i>Kalka + Karpooa+Honey</i>	<i>Anjana</i>	<i>Netra prasadana</i>	Sh.S.U 13/103
26	PIPPALI	Fruit	<i>Churna + Madhu</i>	<i>Kavala</i>	<i>Adhimamsa</i>	Su.Chi 22/20
27	ATASI	Leaves	<i>Swarasa</i>	<i>Nasya</i>	<i>Ardhavabhedaka</i>	Tiruka 42/44
28	MOOLAKA	Root	<i>Swarasa</i>	<i>Karnapoorna</i>	<i>Karna shoola</i>	Su.U.21/17
29	LASHUNA	Root	<i>Swarasa</i>	<i>Karnapoorna</i>	<i>Karna shoola</i>	Su.U.21/17
30	KADALI	Rhizome	<i>Swarasa</i>	<i>Karnapoorna</i>	<i>Karna shoola</i>	Su.U.21/17
31	KAKAMACHI	Fruit	<i>Fruit + Ghee</i>	<i>Dhupana</i>	<i>Pilla roga</i>	Ch.D 59/210
32	KHADIRA	Heart- wood	<i>Taila</i>	<i>Gandusha</i>	<i>Swarabedha</i>	Ch.D 13/7
33	HINGU	Exudate	<i>Sukoshna Nirayasa</i>	<i>Mukha Dharana</i>	<i>Dantakrimi</i>	Vrn.M.58/37
34	LAVANGA	Flower	Flower	<i>Mukha Dharana</i>	<i>Mukha vaishadya hara</i>	C.Su 5/76
35	BRINGARAJA	<i>Panchang</i>	<i>Arka</i>	<i>Nasya</i>	<i>Keshya Shirorthihara</i>	Arka Prakasha 3/78
		<i>Panchang</i>	<i>Swarasa</i>	<i>Anjana</i>	<i>Naktandhya</i>	Tiruka 44/57
36	DURVA	<i>Panchang</i>	<i>Kashaya</i>	<i>Gandusha</i>	<i>Asyapaka</i>	Tiruka 47/21
		Leaves	<i>Swarasa</i>	<i>Nasya</i>	<i>Nasagata rakta srava</i>	C.Chi.4/100
		Root	<i>Swarasa</i>	<i>Nasya</i>	<i>Nasagata rakta srava</i>	C.Chi.4/100
		Bulb	Pieces	<i>Mukha dharana</i>	<i>Asyapaka Danta mula shotha</i>	Tiruka 47/34
37	PALANDU	Bulb	<i>Kalka</i>	<i>Shiropichu</i>	<i>Nasagata rakta srava</i>	Tiruka 45/4
		Bulb	<i>Swarasa + madhu</i>	<i>Anjana</i>	<i>Sarva dristi dosha hara</i>	Tiruka 44/124
		Bulb	<i>Swarasa</i>	<i>Nasya</i>	<i>Peenasa</i>	Tiruka 45/17
38	JEEVANTI	Leaves	<i>Ghrita</i>	Orally	<i>Naktandya</i>	A.H.U 13/89
39	KARAVEERA	Leaves	<i>Swarasa</i>	<i>Lepa on closed eyes</i>	<i>Abhishyanda</i>	Ch.D 59/7.
		Leaves	<i>Swarasa</i>	<i>Pralepa</i>	<i>Indralupta</i>	A.H.U 24/29
42	SHATAVARI	Root	<i>Payasa</i>	Orally	<i>Timira</i>	Su.U 17/49

43	KAPIKACHU	Root	Kalka + Honey	Anjana	Kapha vidagha drsti, Pitta vidagadha drsti	Su.U 17/8
44	KAKAMACHI	Fruit	Kalka + Ghrita	Dhoopana	Pilla roga	Van546,61-243
45	KANTAKARI	Root	Kashaya	Orally	Vataja abhishyanda	Su.U 9/11
47	KUMKUMA	Stigma	Ghrita bhrista + sharkara	Nasya	Ardhavabedhaka	Ch.D.60/40 Sha.S.U 8-32
48	LAKSHA	Resin	Churna + Madhu	Mukha pratisarana	Dantasharkara	Ch.D.56/26
49	MADHUKA	Flower	Swarasa	Navana nasya	Pitta shiroroga	C.Ci.26/179
		Resin	Churna	Virechanika nasya	Kaphaja shiroroga	Ch.D 60/17
		Resin	Churna + madhu	Anjana	Shuklagata roga	Su.U.12/33
50	MALLIKA	Flower	Petals	Bandhana	Netra rakshana	A.H.Su 24/21
		Fruit	Churna + madhu	Anjana	Nakthandhya	B.P 63/231
51	MARICA	Fruit	Churna + Dhadi	Anjana	Nakthandhya	A.H.U13/84 Ch.D 59/ 161
		Fruit	Churna + guda	Orally	Nava pratishyaya	Vrn.M.60/21
52	MUSTAKA	Rhizome	Churna + Chaga mutra	Anjana	Netra pushpa	G.N.3-3-200
53	NARIKELA	Liquid	Jala	Orally	Anantavata	Ch.D 60/46
		Root	Kashaya	Gandusha	Danta roga	H.S 3-46-14
54	NIMBA	Leaves	Kalka	Pindi	Kapha-pitta abhishyanda	Sh.S.U 13/29
		Leaves	Taila	Nasya	Khalitya, Palitya	A.H.U 24/34 Sh.S.M 9-154
55	MAHANIMBA	Fruit	Kalka	Pindi	Pittaja netra roga	Sh.S.U 13/27
56	ASHWATHA	Leaves	Patra + Taila = Angara tapta	Taila	Karnapurana	Ch.D.57-7
57	DADIMA	Flower	Swarasa	Nasya	Nasapravritta Rakta	C.Chi.4/100
58	DHATTURA	Leaves	Swarasa	Shirolepa	Indralupa	A.H.U 24/30
59	GUNJA	Root	Churna + Goat's urine	Anjana	Timira	G.N.3-3-377
60	INDRAVARUNI	Seed	Seed + Taila	Shiro Abhyanga	Kesha Krishnee karan	Sh.S.U. 11/26
61	JAMBU	Leaves + Fruit	Leaf + fruit boiled Liquid	Karnapurana	Krimikarna	G.N. 3-2-66
62	SNUHI	Latex	Latex	Lepa	Galashundi	Vrn.M.58/49

G.N-Gadanigraha; Y.R-Yoga Ratnakara; Ch.D-Chakradatta; Su.U-Sushruth Samhita Uttaratanttra; Su.Chi-Sushruth Samhitha Chikitsasthana; Van-Vangasena; C.Chi-Caraka Samhita Chikitsasthana; C.Su-Caraka Samhita Sutrasthana; K.S-Kashyapa Samhita; A.H.U-Astanga Hridaya Uttaratanttra; A.H.Su-Astanga Hridaya Sutrasthana; A.S.U-Astanga Sangraha Uttaratanttra; H.S-Harita samhitha; B.R-Bhaishajya Ratnavali; Sh.S.U-Sharangadhara Samhita Uttara; Vrn.M-Vrinda Madhava; B.P-Bhava Prakasha; Tiruka- Swayam vaidhya.

DISCUSSION

Ekamoolika Prayoga, the use of single herbs in treatment, has been a cornerstone of *Shalakyta Tantra*, the *Ayurvedic* discipline dealing with diseases of the *Urdhwa Jatru*. Various classical texts describe the application of single herbs in managing *Urdhwa Jatru Gata Vikaras*, including *Kapala Rogas*. A closer look at the pharmacology of these herbs reveals a range of

beneficial activities, including antioxidant, anti-inflammatory, analgesic, and antimicrobial properties. Here are some research articles which explore the pharmacological effects, phytochemical constituents & therapeutic applications.

- Amalaka -A study found that Pyruvate & Vitamin C present in *Emblica officinalis* found to inhibit aldose reductase and reduce lens sorbitol levels.^[2] Another animal study states that *Emblica officinalis* is capable to induce lens regeneration in the frog.^[3] Reduces blood glucose level both in normal and alloxan- induced rats, thereby causing delay in diabetic cataract due to the presence of tannoid content. *P. emblica* possesses 5α- reductase inhibitory activity which eventually promotes hair growth.^[4] Treatment with purified EO extract preserves mitochondrial and cellular health and function in human AMD RPE cybrids, implying that EO mitigates ageing-related damage in AMD.^[5]

- Haritaki - A mouse model of experimental dry eye has shown that Gallic acid not only prevents and inhibits the apoptosis of corneal epithelial cells but also diminishes the levels of inflammatory agents in both the cornea and conjunctiva.^[6] The 10% solution of the extract used in mouth rinsing show inhibition of the salivary bacterial count and glycolysis of salivary bacteria for up to 90 minutes post rinsing.^[7] The 10% mouth rinse of *T. chebula* extract was found to be beneficial in neutralizing salivary pH as well as gingival irritation and microbial plaque.^[8]
- Vibhitaki - A 70% methanol extract has effectively reduced free radicals and reactive oxygen species in vitro studies and increased the activity of antioxidant enzymes such as superoxide dismutase, catalase and glutathione reductase in mice.^[9]
- Yastimadhu - In a clinical trial of 32 cases of allergic conjunctivitis, Eye drops containing 5 % sodium glycyrrhizinate or the 8-12 % suspension of glycyrrhetic acid or 10-30% herb extract, 3 or 4 times daily for 2-7 days, were effective in eye inflammatory conditions such as Herpetic keratitis, keratoconjunctivitis and fascicular keratitis.^[10] Study showed that patients who used *G. glabra* gum paint at a 10% concentration experienced a considerable reduction in gingival bleeding.^[11] The licorice powder and its extract are extremely useful in treating sore throat.^[12]
- Lodra - One study found that an extract of the plant's bark has significant anti-inflammatory activity, antioxidant, and wound healing activity.^[13]
- Punarnava – A study was conducted on BALB/c mice model to check the immunomodulatory activity, result showed that Punarnavine enhanced the stem cell proliferation, differentiation of stem cells and antibody formation process. It also suppressed the pro inflammatory cytokines in Balb/c mice.^[14]
- Haridra - Lal et al. reported an improved vision in patients with chronic anterior uveitis who were administered oral capsules with 375 mg/capsule of curcumin t.i.d. along with local cycloplegics (e.g. atropine), decreased aqueous flare and keratic precipitates were observed after treatment.^[15] A study demonstrated the effectiveness of intranasal nanomicelle curcumin in corneal epithelial/nerve wound healing in STZ-induced model of diabetic mice with corneal epithelium abrasion. In this study, curcumin recovered the enhanced accumulation of ROS, decreased free radical scavengers, decreased mRNA expression of neurotrophic factors, and increased mRNA expression of proinflammatory cytokines in the cornea.^[16] A reported that curcumin had the potential of inhibiting ovalbumin-induced conjunctivitis caused by allergy in a mouse model. It suppressed the activation levels of inducible nitric oxide synthase (iNOS) production in mouse conjunctiva and inhibited immunoglobulin E (IgE)-mediated and eosinophil-dependent conjunctival inflammation.^[17]
- Daruharidra – In an invitro study, tropical instillation of aqueous extracts of *B. aristata* showed anti-inflammatory activity against endotoxin induced uveitis in rabbits.^[18]
- Shigru has antioxidant properties that helps to rejuvenate the eye cells & tissues, preventing damage from oxidation & lipid oxidation.^[19]
- Ardhraka shows potential in alleviating allergic rhinitis & reducing advanced glycation end product, with its active compound 6-gingerol modulating immune responses and inhibiting AGE formation.^[20,21]
- Guduchi - Clinical trials have shown that tablets containing *Tinospora cordifolia* can reduce eosinophil & neutrophil counts in patients with allergic rhinitis.^[22] Procured stem extract acts on, prevention of retinal oxidative stress, restoration of antioxidant enzyme levels & reduction in the angiogenic markers, vascular endothelial growth factor (VEGF) & protein kinase C (PKC) that are increased in diabetic retina.^[23]
- Sarshapa dietary leaf extract delays cataract progression in rats. Mustard based toothpaste reduces plaque & gingivitis, improving oral hygiene.^[24,25]
- Arka - A study was also observed in *C. gigantea*'s antifungal activity. Parts of *C. gigantea* that are often tested as antifungal are leaves.^[26] Researchers found that the DPPH of radical scavenging activity in *C. gigantea* was as high as 37- 85.17% in the leaves. Flavonoids and triterpenoids also increase the rate of wound contraction and epithelial formation.^[27]
- Palasha - The leaves are used for eye infections. Ayurveda's Siddha Yoga Sangraha mentions palasha distillate for managing cataract.^[28]
- Jati - The results showed that JTE effectively attenuated the UVB-induced cell injury by reducing the excessive intracellular ROS generation, and inhibiting the expression of apoptotic genes such as Bax, Caspase-3/9.^[29] Jasmine oil is beneficial for hair because of its anti-lice properties, and it can treat scalp infections very effectively.^[30] A study found that a mucoadhesive formulation containing *Jasminum grandiflorum* leaves helped to heal oral wounds in animals by repairing and reconstructing connective tissue and epithelium.^[31]
- Guggulu's volatile oil is effective. Its gum has antimicrobial properties against gram-positive bacteria & some resistance to gram-negative bacteria.^[32]
- Tulasi - The aqueous extract of fresh leaves of OS delayed the process of cataractogenesis in experimental models of cataract.^[33] A clinical trial has demonstrated that rinsing with tulsi is as effective as 0.2% Chlorhexidine and Listerine in reducing the levels of *Streptococcus mutans*, and that a herbal mouthwash that includes tulsi is preferred for its taste and convenience.^[34]

- Neferine in pundarika inhibits human retinoblastoma cells (WERI-Rb-1) reducing Ki-67, surviving & VEGF, showing anti-invasive effects.^[35]
 - Dhanyaka leaf extract as eye drops may inhibit smallpox/measles. Coriander leaves help with mouth sores, toothache, gum bleeds. Linalool in coriander has antioxidant, neuroprotective effects.^[36]
 - Bilwa - The percentage of free radical inhibition is higher in unripe fruit than that of ripe fruit. Intraocular pressure (IOP) lowering activity has been observed in rabbits. From baseline IOP a reduction of 22.81% has been seen with fruit extract at a dosage of 1%. This may be compared to timolol. The chloroform extract of bael leaf at a dosage 150 and 300 mg/kg bodyweight has been used against cataract by increasing glutathione, catalase, and superoxide dismutase and inhibiting lens aldose reductase (AR) and lowering osmotic stress.^[37]
 - Vartaka lowers IOP by 25% & causes miosis in humans, potentially helping glaucoma.^[38]
 - Tila oil was significantly more effective for treating nasal mucosa dryness due to the dry winter climate than isotonic NaCl solution.^[39]
 - Kataka has the lignan glycosides (vanprukoside, strychnoside, and glucopyranoside) with strong antioxidant properties.^[40]
 - Pippalai modulates immunity by affecting T lymphocytes in a dose-dependent way, boosting T cells.^[41]
 - Atasi has dose-dependent pain relief like morphine, potentially working as an analgesic & anti-inflammatory.^[42]
 - Mulaka's RsAFP2 triggers self-destruction of *Candida albicans* fungus by activating certain protein.^[43]
 - Lashuna extract kills Gram-positive and Gram-negative bacteria such as *Staphylococcus*, *Streptococcus*, *E. coli*, *Salmonella* & fungi like *Candida*, *Cryptococcus*. Allicin in garlic does this via allinase enzyme activity.^[44]
 - Kadali shows antibacterial activity Gram positive (*L. acidophilus* ad *S. aureus*) and Gram negative (*E. coli*, *P. aeruginosa*) bacteria.^[45]
 - Kakamachi's water extract has strong anti-oxidative activity due to its several anti oxidants like gallic acid, PCA, caffeic acid, catechin, epicatechin & rutin.^[46]
 - Khadira's bark has antioxidant, astringent, anti-inflammatory, antibacterial, & antifungal properties. Its extract is used for oral hygiene (mouthwash for gums, sore throat, gingivitis, dental issues). Terpenes in leaves fight microbes.^[47]
 - Hingu has antioxidant, antiviral, antifungal, cancer-prevention, anti-diabetic, antispasmodic, hypotensive & molluscicidal effects.^[48]
 - Lavanaga oil as a paste treats aphthous ulcers by killing bacteria, fungi & larvae. It also reduces plaque on teeth.^[49]
 - Bringaraja is widely used as antioxidant, analgesic, anticancer, antihyperglycemic, anti myotoxic & immunomodulator. *E. alba* extracts promote hair growth in albino rats.^[50]
 - Palandu - A study found that topical onion juice can mitigate morphological alterations of the cornea in aged male rats. The application of topical onion juice is capable of improving ageing alterations in the cornea of the rat. Onion juice can improve corneal ageing by lowering intraocular pressure (IOP), increasing tear secretion, and restoring corneal integrity.^[51] Corneal haze suppression- Onion extract may suppress corneal haze development by blocking TGF- β 1 signalling cascades.^[52] A study has demonstrated that instillation of onion juice into rat eyes can effectively prevent selenite-induced cataract formation.^[53]
 - Nimba extract dental gel reduced plaque & bacteria in a 6-week study vs. chlorhexidine gluconate (0.2% w/v) mouthwash.^[54]
 - Maricha showed anticataract effects in vitro against glucose-induced cataractogenesis in goat lenses at piperine 60 μ g/ml.^[55]
 - Dadima's leaf extract (250-1000 μ g/ml) showed anti-cataract activity in goat lens via aldose reductase inhibition, reduced oxidative stress & boosted antioxidant defence.^[56]
 - Dhatura – methanol leaf extract triggered fast hair growth in 5 days, filling shaved areas in 13 days. Leaf & flower extracts induce active hair growth cycles with finer, denser hairs.^[57]
- Administration of single herbs can be done in various dosage forms, such as *Churna*, *Swarasa*, *Kalka*, *Kwatha*, *Ghrita*, *Taila*, and *Ksheerapaka*, catering to different needs and conditions. Moreover, they can be administered through multiple routes, including oral, nasal, and local application, allowing for targeted treatment. In classical texts, some herbs are specifically mentioned for *Netra Rogas* (eye diseases) and are used as single drugs with particular *anupanas* (vehicles). This highlights the potency of these herbs in their single form, as seen with *Punarnava*. The targeted action of these single herbs enhances their efficacy in disease management.
- The use of *ekamulika prayoga* offers several advantages, including targeted action for enhanced efficacy, easy procurement and preparation, cost-effectiveness, and effortless administration. It collectively ensures effective, simplified dosing and improves patient compliance. By embracing *Ekamoolika Prayoga*, practitioners can tap into the potential of single herbs to provide effective, efficient, and sustainable treatment options for various diseases, particularly those related to the upper body parts.

CONCLUSION

Ekamoolika Prayoga in *Shalakyta Tantra* offers a promising approach for both *Swasthya rakshana* (health maintenance) and *Vikara prashamana* (disease

management). The challenges of procuring quality raw materials for complex formulations, single herb therapies provide a practical solution due to their ease of procurement, preparation, and administration.

The efficacy of single *dravyas* highlights their potential as effective treatment options. To fully leverage this potential, future directions should focus on conducting clinical trials to validate efficacy and safety, standardising and quality controlling of the single herb preparations, educating and training practitioners, and researching pharmacological and therapeutic aspects of each drug.

By exploring and scientifically validating classical *Ekamoolika Prayogas* and folklore remedies, we can unlock new avenues for sustainable and effective healthcare solutions.

REFERENCE

1. Agniveśa. Caraka Samhitā, revised by Caraka and Dr̥ḥabala, with the Āyurveda Dīpikā commentary by Cakrapāṇidatta. Edited by Jadavji Trikamji Acharya. Varanasi: Chaukhamba Krishnadas Academy; 2006. Sutrasthāna, chapter 26, verse 12.
2. Gupta SK, et al. Indian J Ophthalmol, 2009; 57: 175–183. Rana JC, et al. Indian J Exp Biol, 2009; 47(3): 157–621.
3. Rana JC, et al. Indian J Exp Biol, 2009; 47(3): 157–621.
4. Ahmad B, Hafeez N, Rauf A, Bashir S, Linfang H, Rehman MU, et al. Phyllanthus emblica: A comprehensive review of its therapeutic benefits. S Afr J Bot, 2021; 138: 278–310. doi: 10.1016/j.sajb.2020.12.028.
5. Nashine S, Kanodia R, Nesburn AB, Soman G, Kuppermann BD, Kenney MC. Nutraceutical effects of Emblica officinalis in age-related macular degeneration. Aging (Albany NY), 2019; 11: 1177–1188. doi: 10.18632/aging.101820.
6. Wang C, Zhang H, Wang X, Wang X, Li X, Li C, et al. Comprehensive Review on Fruit of Terminalia chebula. Molecules, 2024; 29(23): 5547. doi: 10.3390/molecules29235547.
7. Singh P, Malhotra H. Terminalia Chebula: A Review Pharmacognostic and Phytochemical Studies. Int J Recent Sci Res, 2017; 8(11): 21496–21507. doi: 10.24327/ijrsr.2017.0811.1085.
8. Bulbul MRH, Chowdhury MNU, Naima TA, Sami SA, Intiaj MS, Huda N, et al. A comprehensive review on the diverse pharmacological perspectives of Terminalia chebula Retz. Heliyon, 2022; 8(8): e10220. doi: 10.1016/j.heliyon.2022.e10220.
9. Hazra B, Sarkar R, Biswas S, Mandal N. Comparative study of antioxidant properties of Terminalia chebula, Terminalia belerica and Emblica officinalis. BMC Complement Altern Med, 2010; 10: 20. doi: 10.1186/1472-6882-10-20.
10. Joshi H, Nishteswar K, Anilkumar D. Review of Glycyrrhiza glabra (Yashtimadhu). Pharma Sci Monit, 2012; 3: 71–95.
11. AlDehlawi H, Jazzar A. The power of licorice (Radix Glycyrrhizae) to improve oral health. Healthcare, 2023; 11(21): 2887. doi: 10.3390/healthcare11212887.
12. Hasan MK, Ara I, Mondal MSA, Kabir Y. Phytochemistry and pharmacological activity of Glycyrrhiza glabra. Heliyon, 2021; 7(6): e07240. doi: 10.1016/j.heliyon.2021.e07240.
13. Acharya N, Acharya S, Shah U, Shah R, Hingorani L. Comprehensive analysis on Symplocos racemosa. J Ethnopharmacol, 2016; 181: 236–251. doi: 10.1016/j.jep.2016.01.043.
14. Mehrotra S, Mishra KP, Maurya R, Srimal RC, Singh VK. Immunomodulation by Boerhavia diffusa. Int Immunopharmacol, 2002; 2(7): 987–996.
15. Lal B, Kapoor AK, Asthana OP, Agrawal PK, Prasad R, Kumar P, et al. Efficacy of curcumin in chronic anterior uveitis. Phytother Res, 1999; 13(4): 318–322.
16. Guo C, Li M, Qi X, Lin G, Cui F, Li F, et al. Intranasal curcumin for corneal epithelial wound healing. Sci Rep, 2016; 6: 29753. doi: 10.1038/srep29753.
17. Chung SH, Choi SH, Choi JA, Chuck RS, Joo CK. Curcumin suppresses allergic conjunctivitis. Mol Vis, 2012; 18: 1966–1972.
18. Gupta SK, Agarwal R, Srivastava S, Agarwal P, Agrawal SS, Saxena R, et al. Anti-inflammatory effects of Curcuma longa and Berberis aristata. Invest Ophthalmol Vis Sci, 2008; 49(9): 4036–4040.
19. Freiburger CE, Vanderjagt DJ, Pastuszyn A, et al. Nutrient content of seven wild edible leaves from Niger. Plant Foods Hum Nutr, 1998; 53(1): 57–69.
20. Mao QQ, Xu XY, Cao SY, Gan RY, Corke H, Beta T, et al. Bioactive compounds of ginger. Foods, 2019; 8(6): 185. doi: 10.3390/foods8060185.
21. Saraswat M, Reddy PY, Muthenna P, Reddy GB. Prevention of non-enzymic glycation. Br J Nutr, 2009; 101(11): 1714–1721.
22. Badar VA, Thawani VR, Wakode PT, Shrivastava MP, Gharpure KJ, Hingorani LL, et al. Tinospora cordifolia in allergic rhinitis. J Ethnopharmacol, 2005; 96(3): 445–449.
23. Li C, Miao X, Li F, Wang S, Liu Q, Wang Y, et al. Oxidative stress mechanisms in diabetic retinopathy. Oxid Med Cell Longev, 2017; 2017: 9702820.
24. Tian Y, Deng F. Phytochemistry and biological activity of mustard (Brassica juncea). CyTA J Food, 2020; 18: 704–718.
25. Michałowski K, Brodzikowska A. Thioglycosides from white mustard for gingivitis. Int J Mol Sci, 2024; 25: 5290.
26. Pattnaik PK, Kar D, Chhatoi H, Shahbazi S, Ghosh G, Kuanar A. Chemometric profile & antimicrobial activity of Calotropis spp. Nat Prod Res, 2017; 31(16): 1954–1957.

27. Deshmukh PT, Fernandes J, Atul A, Toppo E. Wound healing activity of *Calotropis gigantea*. *J Ethnopharmacol*, 2009; 125(1): 178–181.
28. Singh V. Therapeutic importance of *Butea monosperma*. *J Drug Deliv Ther*, 2011; 1: 1–7.
29. Shang H, Guo Y, Wu L, et al. Jasmine tea extract and retinal pigment epithelial cells. *Appl Biol Chem*, 2023; 66: 22.
30. Shah M, Raj D, Sharma D. Pharmacological and medicinal value of Jasmine, 2022.
31. Mortazavi H, Mashhadiabbas F, Mortazavi SAR, Rezaeifar K, Farhangi M. Jasmine grandiflorum mucoadhesive for oral ulcers. *Clin Oral Investig*, 2020; 24: 1591–1597.
32. Goyal P, Chauhan A, Kaushik P. Antibacterial activity of *Commiphora wightii*. *J Med Med Sci*, 2010; 1: 71–75.
33. Gupta SK, Prakash J, Srivastava S. Validation of traditional claim of Tulsi. *Indian J Exp Biol*. 2002; 40(7): 765–773.
34. Cohen MM. Tulsi—a herb for all reasons. *J Ayurveda Integr Med*. 2014; 5(4): 251–259.
35. Bishayee A, Patel PA, Sharma P, Thoutireddy S, Das N. *Nelumbo nucifera* and cancer prevention. *Cancers*. 2022; 14(3): 529.
36. Sobhani Z, Mohtashami L, Amiri MS, et al. Review of *Coriandrum sativum*. *J Food Sci*. 2022; 87(4): 1386–1422.
37. Sarkar T, Salauddin M, Chakraborty R. Review on *Aegle marmelos*. *J Agric Food Res*. 2020; 2: 100081.
38. Igwe SA, Akunyili DN, Ogbogu C. Effects of *Solanum melongena* on visual functions. *J Ethnopharmacol*. 2003; 86: 135–138.
39. Pal A, Khanum F, Bawa A. Overview of *Sesamum indicum* seeds. *Agric Conspec Sci*. 2010; 75(4): 75.
40. Yadav KN, Kadam PV, Patel JA, Patil MJ. Review on *Strychnos potatorum*. *Pharmacogn Rev*. 2014; 8(15): 61–66.
41. Santoshkumar, Dharshana, Veena S, Hamsaveni V. Clinical study on Pippalyadi churna pratisarana. *Int Ayurvedic Med J*. 2016; 4(12): 3614–3620.
42. Rafieian-Kopaei M, Shakiba A, Sedighi M, Bahmani M. Analgesic and anti-inflammatory activity of *Linum usitatissimum*. *J Evid Based Complement Altern Med*. 2017; 22.
43. Whitbourne K. Radish: Health benefits and uses. WebMD. 2023.
44. Review: Therapeutic uses of garlic (*Allium sativum*). *Evid Based Complement Alternat Med*. 2021; 2021: 8817288.
45. Abdelghany T, Ganash M, Alawlaqi M, Al-Rajhi A. Biological activities of *Musa paradisiaca*. *BioNanoScience*. 2019.
46. Jagtap C, Patil R, Prajapati P. Review on *Solanum nigrum* (Kakamachi). *Ayurpharm Int J Ayurvedic Allied Sci*, 2013; 2: 22–32.
47. Ghodke AS, Chothe D, Shekokar S. Antibacterial and antifungal activity of *Khadira*. *WJPMR*, 2024; 10(1): 265–268.
48. Bagheri SM, Dashti-R MH, Morshedi A. Antinociceptive effect of *Ferula assa-foetida*. *Res Pharm Sci*, 2014; 9(3): 207–212.
49. Agrawal M, et al. Review on uses of clove. *Indian J Res Pharm Biotechnol*, 2014; 2(4): 1321.
50. Mukharjee D, Lokwani S, Dave A, Gonsalves C, Sarkar C. Bhringraj: A pharmaceutical treasure, 2021; 12: 35231–35239.
51. Fattah IOA, Madani GA, El-Din WAN. Onion juice and corneal morphology. *Anat Cell Biol*, 2021; 54(3): 375–386.
52. Kim S, Park YW, Lee E, Park SW, Park S, Noh H, et al. Onion extract for corneal haze suppression. *J Vet Med Sci*, 2016; 78(3): 419–425.
53. Javadzadeh A, Ghorbanihaghjo A, Bonyadi S, et al. Onion juice on selenite-induced cataract. *Indian J Ophthalmol*, 2009; 57(3): 185–189.
54. Alzohairy MA. Therapeutic role of *Azadirachta indica*. *Evid Based Complement Alternat Med*, 2016; 2016: 7382506.
55. Piperine: Antioxidant in glucose-induced cataract. *Int J Pharm Res Appl*, 2022; 7(3): 618–626.
56. Mestry S, Juvekar A. Anti-cataract activity of *Punica granatum* leaves. *Orient Pharm Exp Med*, 2017; 17: 1–8.
57. Oyediji F, Udofia L, Balogun M. Comparative effect of *Datura metel* for hair regrowth, 2020.