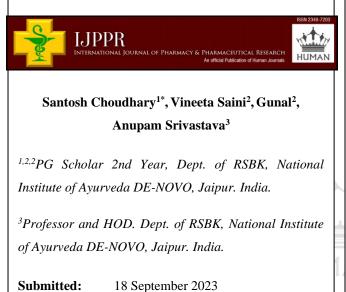
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# Compendious Review on Ashwagandharista: An Ayurvedic Tonic



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#### ABSTRACT

Sandhana Kalpana prove more beneficial in the treatment of many diseases as it has medicinal as well as nutritive value, important one is alcohol generated during process work as a solvent for maximum extraction of raw drug as well as preservative. Compare to other preparation it is having longer shelf life. Quick absorption and maximum bioavailability in short duration. It spreads to all tissues of other body rapidly. Ashwagandharishta is an Ayurvedic polyherbal preparation mentioned in Bhaishajya Ratnavali in Murchharogadhikara notorious for its motley therapeutic uses. Ashwagandharishta is widely used as a Rasayana, which protracts lifespan and rejuvenates the body. The name Ashwagandharishta comes from its chief ingredient Ashwagandha, a herb. The roots of Ashwagandha are exploited as an adaptogen in both Ayurveda and Unani system of medicine. In present review, an attempt was made to compile available literature on Ashwagandharista from classical treatises, online sources.

# **INTRODUCTION:**

Natural products have been an important resource for maintaining life for ages. Even today, natural products are becoming increasingly important as alternative. medicines and source of pharmacotherapeutics either directly or as raw materials from which more or less complex chemical structures with proven biological activity are isolated. The last few decades have seen a resurgence of interest in the use of herbal products.<sup>i</sup>

Most of the *Ayurvedic* herbal dosage forms have shorter shelf life. So it was thought by our *Acharyas* to develop some herbal dosage form which have long shelf life and enhance the therapeutic efficacy of a drug with improved therapeutic value than their initial form.

Sandhana Kalpana supersedes all other Kalpanas because of its high efficacy, quick effect, lesser therapeutic dose, long shelf life, palatability, good smell and universal acceptance. Our Acharyas have always tried to make the preparations more palatable, potent and with longer shelf life. An unabated effort in this direction yielded a procedure called as Sandhana Kalpana. Asava and Arishtas are the two major formulations of Sandhana Kalpana.

According to *Acharya Sharangdhar Asava & Arishta* defined as alcoholic preparations prepared with without *Kwatha* and with *Kwatha* respectively. *Asava* and *Arishta* are prepared by soaking the drugs in powder form or in the form of *Kashaya* in a solution of sugar or jaggery for a specific period of time during which it undergoes fermentation. This anaerobic fermentation produces self-generated alcohol thus facilitating the dissolution of the active principles in the liquid media contained in the drugs. The alcohol so generated also serves a preservative in the formulae.

*Guda, Sharkara* and *Madhu* are the most commonly used sweetening substances and they are responsible for the production of alcohol. There are many references available for the use of different sweetening substances for the manufacturing of *Asava* and *Arishta*.

*Ashwagandharista* is a well-known polyherbal hydroalcoholic Ayurvedic formulation of *Sandhana kalpana (Arishta Kalpana)* and it is only mentioned in *Bhaishajya Ratnavali* in *Murchharogadhikara*. This medicine is effective in the treatment of *Murchha* due to many reason.

Sr.no.	Name of Text books	Time Period
1.	Bhaisajya Ratnavali <sup>ii</sup>	18 <sup>th</sup> century A.D.
2.	Rasa Tantra Sara and Siddhaprayoga Sangraha <sup>iii</sup>	21 <sup>st</sup> century A.D.
3.	Ayurveda Sara Sangraha <sup>iv</sup>	21 <sup>st</sup> century A.D.
4.	The Ayurvedic formulary of India	21 <sup>st</sup> century A.D
5.	Ayurvedic Pharmacopeia of India	21 <sup>st</sup> century A.D

# Table 1. References available for Ashwagandharista

# Table 2: Constituents of Ashwagandharista

Sr.no.	Name of drug	Botanical name	Family name	Part to be use	Quantity of the drug	
Kvath 1	Kvath Dravayas					
1.	Asvagandha	Withania somnifera Dunal.	Solanaceae	Rt.	2.4 kg	
2.	Musali	Chlorophytum tuberosum Baker.	Asparagaceae	Rt.	960 g	
3	Manjistha	Rubia cardifolia Linn.	Rubiaceae	Rt.	480 g	
4	Haritaki	Terminalia chebula Retz.	Combretaceae	Р.	480 g	
5	Haridra	Curcuma longa Linn.	Zingiberaceae	Rz.	480 g	
6	Daruharidra	Berberis aristate DC.	Berberidaceae	St.	480 g	
7	Yastimadhu	Glycyrrhiza	Papillionaceae	Rt.	480 g	

		glabra Linn.			
		Pluchea			
8	Rasna	lanceolata C.B.	Asteraceae	Rt./Lf.	480 g
		Clarke			
9	Vidari	Pueraria tuberosa	Leguminosae	Rt.Tr.	480 g
)		Linn.	Leguninosae	Kt. 11.	400 g
10	Arjuna	Terminalia arjuna	Combretaceae	St.Bk.	480 g
		Roxb.			
11	Mustaka	Cyperus rotundus	Cyperaceae	Rz.	480 g
		Linn.			C
12	Trivrt	Іротоеа	Consvolvulaceae	Rt.	480 g
		turpethum R.Br.			
13	Sveta sariva	Hemidesmus	Apocynaceae	Rt.	384 g
		indicus Linn.			
14	V.	Cryptolepis	A 1	Rt.	294 -
14	Krisna sariva	buchanani Roem and Schult.	Asclepiadceae	KL.	384 g
		Santalum album			
15	Sveta Chandana	Linn.	Santalacea	Ht.Wd.	384 g
		<i>Pterocarpuds</i>			
16.	Rakta Chandana	santalimus Linn f.	Leguminosae	Ht.Wd.	384 g
17.	Vaca	Acorus calamus	Araceae	Rz.	384 g
17.	v aca	Linn.	- Theodo	112.	5015
18.	Citraka	Plumbago	Plumbaginaceae	Rt.	384 g
101		zeylanica Arg.			00.8
	Jala for				98.3041
19.	decoction	Water			lit.
	reduced to				12.288 lit.
	Praksepa dravyas				
20.	Madhu	Honey			14.4 kg
		Woodfordia			
21.	Dhataki	fruticosa Linn	Lytheraceae	Fl.	768 g
		Kurz.			

22.	Sunthi	Zingiber officinale (Linn) Roxb.	Zingiberaceae	Rz.	96 g
23.	Marica	Piper nigrum Linn.	Piperaceae	Fr.	96 g
24.	Pippali	Piper longum Linn.	Piperaceae	Fr.	96 g
25.	Tvak	Cinnamomum zeylanicum Breyn.	Lauraceae	St .Bk.	192 g
26.	Sukshmaila	Elettaria cardamomum Manton.	Zingiberaceae	Sd.	192 g
27.	Tejapatra	Cinnamomum tamala Ness and Eberm.	Lauraceae	Lf .	192 g
28.	Priyangu	Callicarpa macrophylla Vahi	Verbenaceae	Fl.	192 g
29.	Nagakesara	Mesua ferrea Linn.	Guttiferae	Stmn.	96 g

# Method of Preparation:

1. Take ingredients of *kwatha* dravyas (Decoction herbs), completely dry it and make a coarse powder.

2. Make a fine powder of ingredients of *Prakshepa dravya* except *Dhataki* (Woodfordia fruticosa).

3.Add specific amount of water to *kwatha dravya* (Decoction herbs), heat up to its one fourth volume. Then filter it through muslin cloth.

4.Now add *Dhataki (Woodfordia fruticosa)* and honey. Seal the container mouth and ferment the mixture.

5. After its completion, filtrate the fermented material and pour in an air-tight container.

# Table 3. : Pharmacodynamic of each ingredients :

Sr.no	Name of the Drug	Rasa	Guna	Viraya	Vipaka	Prabhava
1.	Asvagandha <sup>v</sup>	Katu, tikta , kashaya	Snigdha, laghu	Ushna	Katu	Balances tridosha, especially kapha and vata dosha
2.	Musli <sup>vi</sup>	Madhur , tikta	Guru, snigdha	Sheeta	Madhura	Vatapitta shamaka, kaphavardaka
3.	Manjistha <sup>vii</sup>	Madhur , Kashaya, tikta	Guru , rooksha	Ushna	Katu	Kaphapittashamaka,m ainly pittahara
4.	Haritaki <sup>viii</sup>	Madhur, amla, katu,tikta, kashaya	Laghu, rooksha	Ushna	Madhura	Natural detoxifying
5.	Haridra <sup>ix</sup>	Tikta, katu	Rooksha, laghu	Ushna	Katu	Balances <i>vata</i> and <i>kapha</i> ,
6.	Daruharidra <sup>x</sup>	Tikta, kashaya	Laghu, rooksha	Ushna	Katu	Balances <i>pitta</i> and <i>kapha dosha</i> .
7.	Yasti <sup>xi</sup>	Madhura	Guru,snigdha	Sheeta	Madhura	Vata-pittahara
8.	Rasna <sup>xii</sup>	Tikta	Guru	Ushna	Katu	Kaphavata samaka, vishagna
9.	Vidari xiii	Madhura	Guru, snigdha	Sheeta	Madhura	Vatapitta shamaka
10.	Arjuna <sup>xiv</sup>	Kashaya	Rooksha, laghu	Sheeta	Katu	Balances kapha and pitta dosha, hridya
11.	<i>Mustaka<sup>xv</sup></i>	Tikta, katu, Kashaya	Laghu, rooksha	Sheeta	Katu	Balances <i>kapha</i> and <i>pitta</i>
12.	Trivrit <sup>xvi</sup>	Tikta, katu	Laghu, rooksha, teekshan	Ushna	Katu	Balances <i>kapha</i> and <i>pitta, increases Vata</i> <i>Dosha.</i>
13.	Sveta sariva <sup>xvii</sup>	Tikta , Madhura	Guru, snigdha	Sheeta	Madhura	Balances all three <i>Doshas</i> .
14.	Krsna sariva xviii	Tikta , Madhura	Guru, snigdha	Sheeta	Madhura	Balances all three <i>Doshas</i> .
15.	Sveta Chandana <sup>xix</sup>	Tikta , Madhura	Laghu , rooksha	Sheeta	Katu	Balances <i>kapha</i> and <i>pitta dosha</i>
16.	Rakta Chandana <sup>xx</sup>	Tikta , Madhura	Guru, rooksha	Sheeta	Katu	Balances <i>kapha</i> and <i>pitta dosha</i>
17.	Vaca <sup>xxi</sup>	Katu, tikta	Laghu, teekshna	Ushna	Katu	Balances <i>kapha</i> and <i>vata dosha, Medhya</i>
18.	Citraka xxii	Katu	Laghu ,rooksha , teekshana	Ushna	Katu	Balances <i>kapha</i> and <i>vata doshas</i>

19.	Madhu <sup>xxiii</sup>	Madhura, Anuras- Kashaya	Laghu, Vishada, rooksha	Ushana	Madhura	Balances <i>kapha</i> and <i>pitta dosha</i>
20.	Dhataki xxiv	Kashaya	Laghu, rooksha	Sheeta	Katu	Balances <i>kapha</i> and <i>pitta dosha, madakari</i>
21.	Sunthi xxv	Katu	Laghu, snigdha	Ushna	Madhura	Vata shamaka
22.	Marica xxvi	Katu, tikta	Laghu, rooksha, teekshna	Ushna	Katu	Kaphaghan, Vatanulomana
23.	Pippali xxvii	Katu	Laghu, snigdha	Anusna	Madhura	Balances <i>kapha</i> and <i>vata dosha</i> ,
24.	Tvak <sup>xxviii</sup>	Katu, tikta, madura	Laghu, rooksha, teekshna	Ushana	Katu	Balances <i>kapha</i> and <i>vata dosha</i> , increase
25.	Suksmaila <sup>xxix</sup>	Katu,madura	Laghu, rooksha	Sheeta	Katu	Balances <i>kapha</i> and <i>vata dosha</i>
26.	Tejapatra <sup>xxx</sup>	Katu, tikta, madura	Laghu, rooksha, teekshna	Ushana	Katu	Kapha vata shamaka
27.	Priyangu	Tikta, Kashaya, Madhura	Laghu, rooksha	Sheeta	Katu	Tridosha shamaka
28.	Nagakesara <sub>xxxi</sub>	Kashaya, tikta	Rooksha, teekshna, laghu	Ushana	Katu	Balances <i>kapha</i> and <i>pitta dosha</i>

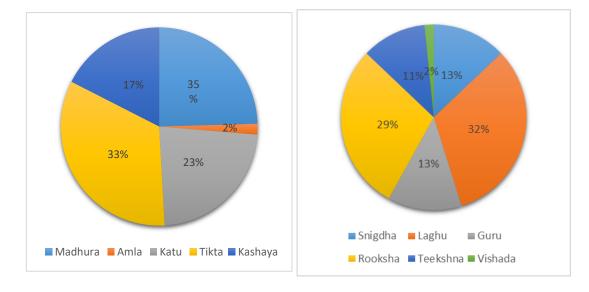


Figure 1: Predominance of *Rasa* (taste) ingredients of *Ashwagandharista* 

Figure 2: Predominance of *Guna* in herbal (property) in herbal ingredients of *Ashwagandharista* 

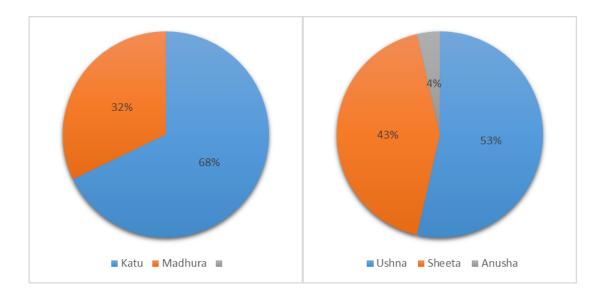


Figure 3: Predominance of Veerya (potency)in herbal ingredients of Ashwagandharista **Figure 4:** Predominance of *Vipaka* (biotransformation) in herbal ingredients of *Ashwagandharista* 

Sr. no.	Name of drugs	Pharmacological action	Chemical constituents
1.	Asvagandha	Rasayana, Vatakaphapaha, Balya, Vajikarana	Alkaloids and withanolides.
2.	Musli	Vrushya , Prameha , Trutahara , Rasayani , Balya , Shonitasthapana , Dahahara , Mehahara,Rasayani, Balya , Deepana , Pachana , Kustha , Kamala , Varnya , Dugdhya , Rochana , Amahara , and Vamana .	Saponin: stigmasterol, hecogenin, calcium.
3.	Manjistha	Pandu , Raktadoshahara , Yakrit Vikara , Sangrahini , Jvara,Kamala , Kasahara , Amahara , Dahahara , Shwasha , Deepana , Pachana	Purpurin, munjistin, xanthopurpurin, pseudo purpurin and glycosides like rubiadin, rubiprasin A,B,C, ruiearbonls, aborane triterpenoids, mangistin, 1-hydroxy 2-methoxy

# Table 4. Pharmacological action and chemical constituent of each ingredient:

		, Rochana , Kupachan ,	anthraquinone, 3-dimethoxy 2
		Anulomana, Vayasthapana,	carboxy anthraquinone, alizarin,
		Shonitasthapana, Hridaya,	garancin, mollugin and furomollugin.
		Vran Ropana, Mehahara,	garaneni, monagin and faromonagin.
		Prameha, Vamana, Trutahara	
		, Pandu, Balya,	
		Hikkanigrahana , Kantya ,	
		Triptighno, and Vamanopaga,	
		Varnya , and Krimihara	
		Chakshushya, Dipana, Hridya,	<b></b>
4.	Haritaki	Medhya, Sarvadopraga amana,	Tannins, chebulic acid, chebulagic
		Rasayana, Anulomana,	acid, mannitol
		hepatoprotective, anticancerous	
			alkaloid, essential oil resin,
			curcumin, aromatic, turmeric oil,
		Krimighan, Varnya, Vishaghana, Prameha nashak, Kushat ghan, antidiabetic,	termerol, turpenoids, curcumone.
			Other than this, it contains protein
5.	Haridra		(6.3%), fat (5.1%), minerals (3.5%),
		antioxidant,	carbohydrates (69.4%), and moisture
		antioxidant,	(23.1%),essential oil (5-8%): α-
			phellandrene (1%), sabiene (0.6%),
			cineol (1%), borneol (0.5%).
		Varnya ,Mehajit, Karna ,Netra	
		mukharogas,Shophahara,	Della in antenna in a
		Kandu	Berberine, quaternary ammonium
6.	Daruharidra	Kushtahara, Visarpahara, Visha	salt of isoquinoline alkaloid,
		hara, hepatoprotetive, platelet	columbamine, palmantine
		activating factor	
		Chakshushya ,Balakrut	
_		,Varnya,Keshya ,Svarya	Glycyrrhizin, glycoside
7.	Yasti	,Trushnahara,Chardihara,Ksh	isoliqirtin,glucose.
		ayahara	
8.	Rasna	Vatasra ,Kasa,jwara ,shoola	Moretenol ,neolupenol,hexacosanoic

		,shwasa ,udara	,tetracosanoic acid ,tricontanol, stigmasterol, beta-sitosterol-D-
			glucoside
9.	Vidari	Shukrala, Balya, Mutrala, Pittahara, Rasayana, Svarya, Vatahara,Varnya, Stanyada, Jivaniya, Brihamaniya	Gluconic and Malic acids.
10.	Arjuna	Hridya Roga, Kshatakshaya, Medoroga, Prameha, Vrana, Trishna, Vyanga, antihypertensive, cardioprotective.	Tannins, saponins, polyphenols, flavonoids, triterpenoids, sterols and minerals
11.	Mustaka	Aruci. Vamana, Atisara, Agnimandhya, Trishna, Kasa, Shvasa. Mutrakrichra, Stanyavikara, Kandu, Kustha, Jwara, Mutrakrichra, Vata rakta, Madatyaya	Mustacone, copaene, cyperotundone, cyperolone, aureusidin (essentialoil), oleanolic acid, sesquisterpine, cyperone, cyperenone.
12.	Trivrit	Krumihara ,Shleshmodara,Jvara ,Pandu ,Hrudroga ,Pleeha ,Vatasruk ,Udavartahara	Turpethins, Scopoletin, Turpethinic, Coumarin
13.	Sveta sariva	Kanduhara,Kushtahara,jvara,v ishapaha ,Amahara,Agnisada,Svasa kasahara ,Pradaranut	H.Indicus -Hyperoside,Rutin ,desinine,Hexatricontane ,B- Sitosterol,hemidesminine,Hemidesm in-1,2
14.	Krishna sariva	Tridosahara ,Grahi ,Kustaghna,jvara ,kandu ,Prameha,Kasa svasa ,aruchi ,atisara ,agnimandya	N-butyl sorboside ,Kempferol
15.	Sveta Chandana	Rakta -prasadana ,Vrushya ,Dahahara,Antadaha	A-santalol, B-Santene and Santalenes, Santenol, Teresantalol, nor

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		hara,sheeta ,Ahladana	-Tricycloekasantalal,1-
		,Klamahara ,Shramahara	Santenone, Santanone, teresantalic, a-
		,Varnya Vishahara	and b Santatalic acids,n-
			octacosanol,plamitone
		Pittahara, Vrishya, Vishaghna,	Glycosides, Colouring Matter,
16.	Rakta	Netraroga, antihelmintic,	santalin, lupeol, pterocarpan,
	Chandana	aphrodisiac	homopterocarpin, cryptomeridol
17.	Vaca	Hridya, Kaphahara, Pittahara, Raktashodhaka, Svara, Vivardhaka, Vatakrit	Alkaloids (Vasicine and Vasicinol) and Oil.
18.	Citraka	Vanhikrut, Pachana, Kushtahar a, Shothahara, Kruminut, Vatars ha, Grahi , Kushtahara, Shothahara, anti- inflammatory, anti-obsity, anti- ulcer, anti-microbial.	Chitranone, Plumbagin,3- Chloroplumbagin,drosrone,Elliptino ne,Zeylanone,Zeylinone,Maritone,Pl umbagicacid,Dihydrosterone,B- Sitosterol.
19.	Madhu	Deepana (stomachic), Swarya (improves vocal tone), Vrana sodhana (wound healer), Veerya vardhaka (aphrodisiac), Yoga vahi(super convenient), Medhya(improves memory), Varnya (complex promoting), and is indicated in pitta vikara, Rakta vikara, Krimi, Shwasa, Atisara, Kshyaya, Vivandha	The Chemical Composition of honey varies according to the chemistry of the nectar. Honey is composed mainly of a variety of sugars, traces of pollen and water. There are also enzymes present.
20.	Dhataki	Atisara, Trishna, Visarpa, Vrana, Raktapitta.	Tannin and Glycoside.
21.	Sunthi	Amavata, Sandhishotha, Prameha, Shotha, Vatavyadhi, Kosthavata, Karnashoola, Avasada, Aruchi, Agnimandya,	Rhizome contains diarylheptenones (gingerenone A) gingerenone B, alpha curcumene,beta curcumene,citral

		Grahini, Gulma, Vibandha,	,zingiberol,zingiberenes
		Arsha, Hridroga,Kantharoga,	,citronellol,geraniol,gingerol, etc.
		Kasa, Jeernajwara, Sheetapitta	
22.	Marica	Agnimandya, Prameha,Yakridvikara,, Shwasa, Hikka,Mutrakrichhra,Adhmana,Kustha, Balashotha,Shothavedanayukta vikara,Shula, Vatavikara, Shwitra,Arma,Shukla, Dantashula,Nadidaurbalya.	Alkaloids (piperine, piperethine, piperolin A & B, pipecolic acid, pipercide etc), essential oil, whose aroma is dominated (max.80%) by monoterpene hydrocarbons: humulene,B-bisabolone and caryophyllene oxide and ketone.
23.	Pippali	Sotha, Amavata, Vatavyadhi, Aruchi, Agnimandya, Vibandha, Gulma, Udarashula, Krimiroga, Hrid-daurbalya, Raktavikara, Vatarakta, Shwasa, Hikka, Yakshma,Kustha, Kashtaprasava.	Fruit contains piperine, piplartine and a lignin d-sesamin, two piperidine alkaloids- pipernonaline and piperundecalidine; triacontane, dihydro-stigmasterol, glycosides, sesamin and methyl 3,4,5- trimethoxycinnamate (roots); piperine and sesamin (stem & fruit); sylvatin, sesamin & diaeudesmin (seed).
24.	Tvak	Kaphavatahara, Ruchya, Vishaghna, Kanthashuddhikara	Essential oil, tannin and mucilage; Cinnamaldehyde, eugenol. benzaldehyde, methyl amyl ketone, phellandrene, pinene,cymene, linalool, cumic aldehyde, caryophyllene, safrole, methylevgenol, cinnamyl alcohol, cinnezeylanol.
25.	Suksmaila	<i>Anulomana, Dipana, Hridya,</i> <i>Mutrala, Rocana,</i> antioxidants, anti-obesity.	Essential oil. Bornneol, camphene, p- cymene, geraneol. heptanes, D- limonene, linalool, menthone, methylheptenone, mycene, nerol,

26.	Tejapatra	Kaphavatahara, Ruchya, Arshoghna, hypnotic, anti- inflammatory	nery lacetate. Essential oils (d-a phellandrene and eugenol), abies in, azirdin, camphene, limonene, borny acetate, pinene
27.	Priyangu	Anti-arthritic, antifungal	Alph-amyrin, ursolic acid, betulinic acid, beta- sitostetrol, daucostero
28.	Nagakesara	Raktapitta, Raktasrava, Raktaarsha, Raktatisara, Raktapradara, Agnimandhya, Trishna, Chardi, Pravahika, Krimi, Hriddourbalya, Klaibya, Mutraghata, Kustha, Jwara, Dourbalyahar, anticonvulsant, antivenom	Mammeis in was reported from the seeds; while stamens afforded two novel biflavanones designated as mesuaferrone-A and mesuaferrone- B, mesuanic acid, beta- mesunic acid, beta-sitosterole. Other constituents are: mesuol, mesuaferrol, mesuone, mesuagin, mesuaaxanthone-A and B, euxanthone, other xanthone derivatives, ferrol-A and B.

# Indications of Ashwagandh arishta according to classical treatise:

*Klaibya* (treats erectile dysfunction)

*Napunsakata* (treats impotency)

Beejopghat (remedies decrease in sperm quantity)

*Kshayaj* (treats excessive loss of sperm)

*Shukradhatu* or reproductive tissue)

Shukragatavata (treats premature ejaculation)

Vajikaran ( improves libido)

*Rasayani* (rejuvenates the whole body)

Citation: Santosh Choudhary et al. Ijppr.Human, 2023; Vol. 28 (3): 176-200.

188

Balya (improves strength)

Udara (treats ascites)

Antravruddhi ( treats Hernia)

Arsha (treats haemorrhoids)

Hridaya (treats heart problems)

Shonitasthapana (prevents bleeding)

Pushtida (good for nutrition)

Balya (improves muscle strength)

Vayasthapana (prevents ageing)

Jvara (useful for fever)

Prameha (treats diabetes)

Kasahara (Relieves cough)

Shwasha (relieves breathing difficulties)

Amahara (treats indigestion)

Deepana (enhances stomach fire)

Pachana (helps in digestion)

Rochana (stimulates appetite)

Anulomana (improves breathing)

Kantya (relieves sore throat)

Amavata (relieves arthritis)

Sandhi shula (treats gout)

189

Kati prishtha shula (remedies spinal and back pain)

Hridaya (treats heart problems)

Kustha (treats skin disorders)

Varnya (improves complexion)

Krimihara (relieves intestinal worms)

Kanthya (improves voice)

#### Modern view:

#### **Enhance Male Reproductive System activity**

*Ashwagandharishta* is commonly indicated for improving men's health owing due to the presence of influential spermatogenic properties. Additionally, abundance of Ashwagandha in this formulation helps in treating hypospermia (i.e., low volume of semen), oligospermia (i.e., low sperm count), asthenozoospermia (i.e., sperm motility), teratospermia (i.e., abnormal sperm shape) and stimulates spermatogenesis (i.e., sperm production) in the testis. Being a natural antioxidant-rich tonic, it increases the production of male hormones like testosterone and luteinizing hormone and also in conditions like erectile dysfunction, nightfalls and premature ejaculation.

#### **Enhances Fertility And Libido function**

*Ashwagandharishta* an absolute traditional remedy for boosting libido and improving fertility in men. It is impart with strong aphrodisiac properties that help in reducing mental stress by regulating the cortisol hormone and abate anxiety, thereby stimulating the production of testosterone that increases fertility and libido. This tonic plays a significant role in booming virility and stamina in men. Consuming this tonic along with milk right before sleeping has known to trigger blood circulation in the genitals which thereby increases the production of male hormones like testosterone and luteinizing hormone, thus improving the motility and quality of sperm in men.

# **Control Anxiety**

The copious amount of anti-anxiolytic properties in *Ashwagandharishta* is extremely advantageous for treating different types of psychotic problems like anxiety, stress, depression, dementia, etc. It regularize the Vata and Pitta imbalances in the body which in turn help to regulates the serotonin level in the body and helps to dwindle the associated symptoms of anxiety associated with tremors, excessive sweating, restlessness, uneasiness, cold hands, and feet, etc. The overriding antidepressant quality of the *arishta* helps in calming the mind, reducing irritability, anxiousness and improving overall mental health.

## **Induces sleep**

The anti-stress and anxiolytic properties of *ashwagandha* in this potent formulation extensively help in positively influencing an frenzied brain, mind and central nervous system CNS and also calming and soothing it. Hence a invaluable form of medication for managing insomnia, as it pacifies the mind and promotes deep sleep at night. Additionally, it also reduces mental stress and tension, thus lessen spell of anxiety, nervousness, and panic attacks and providing comfort to the brain and mind for restful sleep.

## **Improves Cognitive Functioning**

Consecrate with powerful antioxidants and flavonoids, *Ashwagandharishta* has been consider an Adaptogen. It clasps momentous in improving the memory capacity, concentration, focus, calmness, alertness, and intuitiveness of a person. Being a potent brain tonic and stimulator, *Ashwagandharishta* readily promotes antioxidant activity to defence the nerve cells from harmful free radical damage, thus decline oxidative stress and enhancing memory, reasoning, problem-solving, and other cognitive abilities. The neuroprotective elements in Ashwagandha used for concocting this tonic also hinder loss of memory, thereby managing conditions like Alzheimer's, Parkinson's, dementia etc.

## **Boost Immune power**

This formulation holds extravagant in improving the general stamina and energy of the body. Due to the presence of antioxidants and Vitamin C in the formulation, this polyherbal formulation put forward an eventual remedy for improving the immune system, combatting microbes and shielding the body against various microbial infections. It also exhibits the

presence of strong anti-viral, anti-bacterial, and antifungal traits, which is extremely effective in elude infections like fever, common cold, sore throat, and other respiratory woes.

## **Exhilarate Bone condition**

*Ashwagandharishta* take part in promoting bone health and reduce joint pain and inflammation. By augment the synthesis of collagen in the bones, it diminishes the incidence of fracture, maintains overall body balance and poise and provides the body with a strong and perfect skeletal structure. It also increases bone and muscle mass and treats inflammatory conditions like osteoarthritis, osteoporosis, and fibromyalgia.

## **Build on emaciated condition**

*Ashwagandharista* helps in pacifying the *Vata* and *Kapha Doshas* conditions it is used to foster skeletal and muscle mass. This *arista* delivers essential minerals and nutrients to the body, balances subcutaneous fat, and substantial promotes the strength of bones and muscles, thus treating emaciated conditions.

#### **Recuperation Pyospermia**

It is a condition that is caused due to a viral infection primarily characterised by an abnormal increase of white blood cells in the semen which ultimately contract the motility and functioning of the sperm. The antibacterial and anti-inflammatory properties provide excellent remedy for treating the infection and put to rights the associated symptoms.

## Ameliorate function of The Female Reproductive System

*Ashwagandharishta* being a powerful health tonic helps in build on endometriosis or inflammation of the lining of the uterus. It maintains ideal female hormone levels (progesterone and oestrogen) within the blood, fortifies the health of the female reproductive organs and assist timely maturation of the eggs within the follicles. Improves fertility.

## Virtuous for Heart health

Treats various cardiac anomalies owing to its strong antioxidative essence. It takes part a pivotal role in fortifying the heart muscles, fend off lipid escalation in the blood vessels, and hence enormously turn down the prevalence of atherosclerosis, heart attacks, heart blocks, blood clots, strokes etc. It aids in lowering the blood cholesterol level in the body.

#### **Restorate Pain And Inflammation**

powerful anti-inflammatory and Vata-balancing properties, provide extensive relief from painful and inflammatory conditions. Effective against different types of arthritis or Amavata like Rheumatoid arthritis, Gouty arthritis, Gout, etc. Allay the markers of inflammation, it boosts the immune cells or WBCs that help in taking up arms against the infection. It also drop-ship quick relief from burning sensations in several parts of the body.

## **Targe From Intestinal scuffling**

Ashwagandha is a traditional remedy for improving digestive health and treating a wide range of gastrointestinal oddity like constipation, gastritis, diarrhoea, flatulence, peptic ulcer, esophagitis, heartburn, gastroesophageal reflux disease, indigestion, and stomach pain. The carminative nature helps in flatten the food particles in the stomach and intestine, stimulates the production of digestive juices and thereby increases in absorption and assimilation of essential nutrients through the intestines. It obliges in eliminating abdominal gas and in turn, diminishes abdominal distension, bloating and gaseous cramps. Being a mild laxative, it helps in easy passage of stools thus treating constipation and piles effectively.

#### Ashwagandharishta Dosage:

The effective therapeutic dosage of *Ashwagandharishta* may differ from person to person depending upon the age of the patient, body strength, digestive fire or appetite, and severity of the disease. It is strictly advised to take with an *Ayurvedic* practitioner consult.

Adults: 20 ml alongside water or water infused with honey twice a day (to mask its pungent taste) or as suggested by the health care provider.

#### Ashwagandharishta Side-Effects:

The most common side effects of *Ashwagandha*, which is the chief ingredient of *Ashwagandharishta* are<sup>xxxii</sup>:

Intestinal disorders in hyperthyroid patients and pregnant women

Hypnotic effect in high doses

Drowsiness or sleepiness

*Ashwagandharishta* might help in increasing sperm count. According to a small-scale study, root extracts of *ashwagandha*, which is the main ingredient of *Ashwagandharishta* powder are believed to have spermatogenic activities which can stimulate sperm count.

Although this ayurvedic herbal decoction has been studied and researched extensively and is recommended for treating umpteen health anomalies, it is still highly suggested to consume the formulation in the prescribed amount as suggested by the ayurvedic doctor.

# Ashwagandharishta Contradictions:

This polyherbal formulation is contraindicated in the following diseases:

Acidity or hyperacidity

GERD

Gastritis

Mouth ulcer

Sour mouth or throat

# Ashwagandharishta Precautions:

*Ashwagandharishta* being warm can induce uterine contractions and stimulate menstrual flow or uterine bleeding leading to failed pregnancy, hence it is strictly prohibited during pregnancy. With relevant information regarding the usage of this polyherbal formulation in breastfeeding mothers, it is best to refrain from consuming *Ashwagandharishta* during the lactation period as well.

# **Research work:**

1. An experimental trial was undertaken to investigate whether *Ashwagandharishta* and *Atasi taila* (flax seed oil) protect against maximal electroshock (MES) seizures in albino rats. Further, a possible protective role of flax seed oil as an adjuvant to *Ashwagandharishta* in its anticonvulsant activity has also been evaluated in the study. MES seizures were induced for rats and seizure severity was assessed by the duration of the hind limb extensor phase. Phenytoin was used as the standard antiepileptic drug for comparison. Both flax seed oil and *Ashwagandharishta* significantly decreased convulsion phase. Pre-treatment with flax seed

oil exhibited significant anticonvulsant activity by decreasing the duration of tonic extensor phase. Contrary to the expectations, pre-treatment with flax seed oil as an adjuvant to Ashwagandharishta failed to decrease the tonic extensor phase; however, it significantly decreased the flexion phase (P < 0.001) and duration of the convulsions (P < 0.05). Both the drugs exhibited an excellent anti-post-ictal depression effect and complete protection against mortality.<sup>xxxiii</sup>

2. A study was done to evaluate clinical indications of *Ashwagandharishta* in experiential and scientific view in mental disorders, neurological disorders, and chronic debilitating diseases as it has *Dipana, Pachana, Rasayana, Balya, Brimhana, Nadi Balya*, sedative, hypnotic, antistress, adaptogenic and nerve tonic etc. Properties.<sup>xxxiv</sup>

3. A investigation was carried out of different types of test preparations of *Ashwagandharishta* as *Ashwagandharishta-T*, *Ashwagandharishta-M* prepared by traditional and modern methods respectively and marketed *Ashwagandharishta* they were evaluated for antimicrobial activity against common human pathogens. It was observed that all the test preparations of *Ashwagandharishta* exhibited significant zone of inhibition against selected common human pathogens. The results indicate that all the test preparations of *Ashwagandharishta* as *Ashwagandharishta-T*, *Ashwagandharishta-M* and marketed *Ashwagandharishta* might be used as natural drug for the treatment of several infectious diseases caused by these organisms.

4. A study was executed in which *Ashwagandharishta* was prepared by traditional method and was standardized by TLC method.Physicochemical and phytochemical analysis was performed to confirm the chemical constituents from *Ashwagandha* root powder. formulation should be standardized by HPTLC, HPLC and pharmacokinetic profiling methods by using markers.

5. A work was carried off to know the types of biomolecules present in it by GC MS analysis. *Aswagandharishta* was procured from standard Ayurvedic outlet and was subjected to Gas Chromatography Mass Spectrometry after due processing. The GC MS analysis of *Aswagandharishtam* has shown some promising molecules like Prostaglandin A2, Cholesterol, Piperine, Gentamicin a, d-Mannose, Eugenol, Pipradrol among others, which have activities similar to that of *Aswagadharishtam*. This is a preliminary report where some clue about the various types of biomolecules present in *Aswagandharishtam* was obtained.<sup>xxxv</sup>

6. Alpha-7 nicotinic acetylcholine receptor is a sub type of nicotinic acetylcholine receptor which has been recognized as one of the most useful drug target for the treatment of nervous system associated disorders. Molecular docking analyses have been carried out to detect any possible secondary metabolites present in *Ashwagandharishta* that could act as agonists of alpha-7 nicotinic acetylcholine receptor. According these computational findings, it has been found that two phytochemicals; anaferine and anahygrine exhibit promising agonistic activity towards the receptor. Thus anaferine and anahygrine have high possibility to serve as alpha-7nAChR agonists which demonstrate potential drug action towards memory related disorders.<sup>xxxvi</sup>

Research was designed to evaluate the cardio protective activity of Ashwagandharishta-T, Ashwagandahrishta-M prepared by traditional and modern methods respectively and its marketed preparation on isoproterenol (ISO) induced myocardial infarction (MI) in albino rats. Wistar albino rats of either sex were randomly divided into 06 groups comprising 06 animals in each group as normal control, ISO control, pretreatment with Inderal\*10 (10 mg/kg) per os, pretreatment with Ashwagandharishta-T, M and its marketed preparation at the dose of 2 ml/kg per os per day for 30 days. MI was induced in all the groups except normal control, by administering ISO (85 mg/kg) intraperitoneally, on 29th and 30th day. On 31st day, level of serum marker enzymes was determined and serum lipid profile was also measured. Then, animals were subsequently sacrificed, hearts were removed, weighed and immediately processed for biochemical studies. Pretreatment with Inderal\*10 and all the test preparations of Ashwagandharishta significantly prevented the ISO-induced adverse changes in the level of serum marker enzymes as creatine kinase (CK-MB), lactate dehydrogenase (LDH), aspartate aminotransferase (AST) and alanine aminotransferase (ALT) and also improved serum lipid profile. All the test formulations pretreated groups showed significant increase in glutathione (GSH) content and significantly reduced malonyldialdehyde (MDA). experimental that the cardio Thus. finding suggests protective activity of Ashwagandharishta-T, M and its marketed preparation may be due to an augmentation of endogenous antioxidants as GSH and inhibition of lipid peroxidation of cardiac membrane.xxxvii

7. A study was performed and the key objective was to analyze the effect of ASG on different enzyme profile i.e; Aspartate Aminotransferase (AST), Alanine aminotransferase (ALT), Alkaline Phosphatase (ALP) and Lactate dehydrogenase (LDH). A total of 40 males

and 40 females were randomly assigned to the four groups, namely group I (Control: water), group II (0.625 ml/kg BW of ASG), group III (5.0 ml/kg BW of ASG), and group IV (40.0 ml/kg BW of ASG) consisting of 10 males and 10 females in each group. To detect the outcome of ASG on different enzyme profile, it was administered chronically to both male and female Sprague-Dawley rats for 51 days. The results showed a significant decrease of serum AST level in ASG treated male rat groups (p < 0.05) than control counterpart. In females, serum AST level in mid dose (group III) was significantly higher as compared to control (p < 0.05). The females from mid dose group showed significant increase in serum ALT level (p < 0.05) whereas other groups from male and female showed no significant changes. For the enzyme Lactate dehydrogenase, only the male rat high dose showed a significant decrease (p < 0.05) than the corresponding control group. No statistically significant change was noted in Alkaline Phosphatase level for both the male and female rats at three different doses.<sup>xxxviii</sup>

8. The study was accomplished to compare the lipid peroxidation activity and related hypolipidaemic activity in Ashwagandhrishta-T and Ashwagandhrishta -M prepared by traditional and modern methods with standard Atorvastatin. Hypolipidaemic activity was evaluated on cholesterol fed rats. The antioxidant activity of Ashwagandharishta-T and increased in concentration dependent Ashwagandharishta-M was a manner. Ashwagandharishta-T and Ashwagandharishta-M inhibited the ferrous sulphate induced lipid per-oxidation in a dose dependent manner and showed inhibitory concentration (IC50) value 181.88 and 191.05 µg/ml, respectively. In hypolipidemic activity Ashwagandharishta-T and Ashwagandharishta-M at the dose of 2.0ml/kg body weight orally significantly reduced serum cholesterol (47% and 46%), serum LDL (66% and 65%), and serum triglycerides (35% and 34%). The increase in serum HDL was 19% when compared to control with both the AshwagandharishtaT and M and reduction in atherogenic index was found 1.25 and 1.29 in Ashwagandharishta-T and Ashwagandharishta-M treated groups respectively, which strongly supports anti-atherosclerotic property of Ashwagandharishta.<sup>xxxix</sup>

9. Study was to analyze the effect(s) of *Ashwagandharishta* on the kidney functions of both male and female Albino rats. Chronic toxicity tests were also done. Following treatments, the rats were observed for 51 days to know the effects of *Ashwagandharishta* on kidney functions considering 3 parameters such as serum urea, creatinine and uric acid. Our results failed to exhibit a significant increase in serum urea level at low dose (P<0.01), medium dose

(P<0.05) and at high dose (P<0.001) in male rat groups; but with female rat groups our results showed significant increase in serum urea level at three dose levels. Regarding serum creatinine level male rats and female rats showed a trend of increase in level at different dose but effects were insignificant except medium dose in male rats (P<0.05). Regarding serum uric acid level our results failed to show a significant increase irrespective of dose.<sup>x1</sup>

10. A study was conducted in which it is evaluated that *Ashwagandharista* significantly reduce the secretion of acid and protect the gastric mucosa lining.<sup>xli</sup>

## **Discussion:**

Every man of this universe can take the drug inside the body either as a diet or in the form of medicine. But every drug must be formulated in such a way, so that it should be easy for administration. For this, different processes are derived which are known as *Kalpana* - which indicates the sense of manufacturing process.

While developing a pharmaceutical formulation, one must to keep three subjects in consideration i.e. the nature of the disease, condition of the patient and the last but most important is the nature of the drug. That's why *Acharyas* described different formulations for a single disease, also various forms of a single drug.

*Panchavidha Kashaya Kalpana* have taken origin from the herbal drugs. These five basic Kalpana are: *Swarasa, Kalka, Kwatha, Hima, Phanta*. But, later on with the intention of palatability, less dose, longer shelf life, potency, quick relief etc., some secondary formulations were evolved like *Churna Kalpana, Leha Kalpana, Vati Kalpana, Sneha Kalpana, Sandhana Kalpana* etc.

Sandhana Kalpana supersedes all other Kalpana because of its high efficacy. quick effect, lesser therapeutic dose, long shelf life, palatability, good smell and universal acceptance. The properties of both the solvents i.e. water and alcohol are achieved in the Asava-arishta preparation. Self-generated alcohol promotes rapid absorption of constituents, quick in action, increase shelf life and prevents growth of mould and bacteria. Presence of sugar and Sandhana Dravya increases palatability. In a nutshell, it fulfils all the desired characteristics of wanted dosage form and become superior dosage form in the field of Bhaishajya Kalpana. These are the reasons for Sandhana Kalpana being much more popular among the

physicians. *Arishta* is a type of *Sandhana Kalpana* with somewhat superior quality due to their medicinal properties.

*Ashwagandharista* is quoted in the text *Bhaisajya Ratnavali* for *murchha roga*. It contains all the constituents of *Asava-arishta* preparations like decoction as *Drava, madhu* as a sweetening agent, *Dhataki Pushpa* as inoculums or *Sandhana Dravya*.

#### **Conclusion:**

Since ancient times, *Ashwagandharishta* has been mentioned in several Ayurvedic scriptures as an ultimate remedy for numerous health aberrations. This incredible medicinal compound is classified as an adaptogen and *Rasayani Dravya* and assists in mitigating stress and anxiety. Additionally, being a dominant aphrodisiac, it increases libido, treats various infertility issues and improves the reproductive health in both men and women. It also ensures proper digestion, promotes memory, fortifies bone health, relieves inflammation and thus improves overall stamina and body immunity.

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