International Research Journal of Ayurveda & Yoga

An International Peer Reviewed Journal for Ayurveda & Yoga





"Role Of *Guduchyadi Churna* On *Rajonivrutti Avastha* With Special Reference To Postmenopausal Syndrome"- A Review Of Literature

Dr.Suresh Kumar¹, Dr Dholaram Saini², Dr Brijgopal³

VOLUME 4 ISSUE 1 JANUARY2021

¹Assist. Professor, Deptt. Of *Prasuti & StreeRoga*, SSSB *Ayurvedic* College & Hospital, Renwal, Jaipur, Rajasthan

²Associate Professor, Deptt. Of *Samhita & Siddhant*, SSSB *Ayurvedic* College & Hospital, Renwal, Jaipur, Rajasthan

³Assist. Professor, Deptt. Of *Rasashastra & Bhaishjya kalpana*, Baba Hiradasji *Ayurvedic* college & Hospital, Badal, Muktsar, Punjab

Corresponding author : Dr. Suresh Kumar 1Assist. Professor, Deptt. Of Prasuti & StreeRoga, SSSB Ayurvedic College & Hospital, Renwal, Jaipur, Rajasthan E mail: <u>drskpaliwal08@gmail.com</u>, Contact no. 8209849426

Arti<mark>cle r</mark>eceived on 23th Dec 2020

Article Accepted 3th Jan2021

Article published 31st Jan 2021

ABSTRACT

Menopause is defined retrospectively as the time of the Final Menstrual Period (FMP), followed by 12 months of amenorrhea. Post menopause describes the period following the final menses. In Ayurveda, this phenomenon is considered as a natural process due to aging and not associated with any serious health problems. Menopause is a state of Vata predominance & Dhatukshaya (depletion of tissue) and it occurs at the age of 50 years. The menopause is permanent cessation of menstruation at the end of reproductive life due to loss of ovarian follicular activity. The age at menopause appears to be genetically determined and is unaffected by race, socioeconomic status, age at menarche, or number of prior ovulations. Factors that are toxic to the ovary often result in an earlier age of menopause; for example, women who smoke experience an earlier menopause. Women who have had surgery on their ovaries, have had a hysterectomy, despite retention of their ovaries, may also experience early menopause. In U.K. average age for menopause is 52 (National Health Service) while in the U.S.A, it is 51 (National Institute of Aging). About 1/5th women in India experience menopause before the age in 41, but average age is 50 years and about 10% women seek medical advice during menopause. Premature ovarian failure is defined as menopause before the age of 40 years. It may be idiopathic or associated with toxic exposure, chromosomal abnormality, or autoimmune disorder. 'Guduchyadi Churna' drug can be effective in the management of Postmenopausal Syndrome and can be an effective, safe, promising and cost effective remedy.

Keyword:. Rajonivrutti, Postmenopausal Syndrome, Guduchyadi Churna.



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How to cite this article: - Dr. Suresh Kumar, Dr Dholaram Saini, Dr Brijgopal, Role Of *Guduchyadi Churna* On *Rajonivrutti Avastha* With Special Reference To Postmenopausal Syndrome"- A Review Of Literature IRJAY, January: 2021 Vol- 4, Issue-1; 229-241; Doi: https://doi.org/10.47223/IRJAY.2021.4132

INTRODUCTION:

The age at menopause appears to be genetically determined and unaffected is by race. socioeconomic status, age at menarche, or number of prior ovulations. Factors that are toxic to the ovary often result in an earlier age of menopause; for example, women who smoke experience an earlier menopause. Women who have had surgery on their ovaries, have had a hysterectomy, despite retention of their ovaries, may also experience early menopause¹.In U.K. average age for menopause is 52 (National Health Service) while in the U.S.A, it is 51 (National Institute of Aging). About 1/5th women in India experience menopause before the age in 41, but average age is 50 years³ and about

MATERIALS AND METHODS:

In order to determine in current body of scientific evidence supporting the therapeutic effect of 'Guduchyadi Churna' in case of Rajonivrutti (Postmenopausal Syndrome), the author performed thorough literature search focused on the ratification of the available peer reviewed literature that provide scientific evidence for the benefits of 'Guduchyadi Churna' in human subjects.

REVIEW:

Menopausal syndrome is a fact of multi-factorial etiopathogenesis with symptoms of varying degree from very mild to very severe and distressing, disturbing the routing life of the women. The women are running in the critical phase in their **Table: Contains of** *Guduchyadi Churna*:

10% women seek medical advice during menopause. Menopause is defined retrospectively as the time of the Final Menstrual Period (FMP), followed by 12 months of amenorrhea. Post menopause describes the period following the final menses². In *Ayurveda*, this phenomenon is considered as a natural process due to aging and not associated with any serious health problems. Menopause is a state of Vata predominance & *Dhatukshaya* (depletion of tissue) and it occurs at the age of 50 years⁴. '*Guduchyadi Churna*' drug can be effective in the management of Postmenopausal Syndrome and can be an effective, safe, promising and cost-effective remedy

aging phenomenon i.e. late middle or early old age also. Single drug formulation may treat a fraction of symptoms but not the whole symptoms of menopause. Postmenopausal Syndrome or Rajonivrutti Avastha is comprises of several (Signs symptoms) of Lakshana and all Dhatukshaya. (depletion of tissue) Moreover there is vitiation of two *Dosha* along with *Manasikdosha* and Agni (digestive fire) is decreasing. **DRUG REVIEW** ⁵⁻⁴²: Guduchyadi Churna: It is explained in Y.R. Uttarakandha 24, by Dr.Indradevatripati&D.S.Tripati,edition 1stChkambha series office ,Varanasi (P) p.No-892

Sl.no.	Ingredients	Scientific name	Useful parts
1.	Guduchi	Tinospora cordifolia Willd.	Stem
2.	Apamarga	Achyranthes aspera Linn.	Whole plant
3.	Vidanga	Embelia ribes Burm.f	Fruit
4.	Shankhapushpi	Convovulus pluricaulis Chois.	Whole plant
5.	Vacha	Acorus calamus Linn.	Root
6.	Haritaki	Terminalia chebula Retz.	Fruit
7.	Sunthi	Zingiber officinale Rosc.	Stem
8.	Shatavari	Asparagus racemosus Willd.	Root

GUDUCHI

Botanical name: Tinospora cordifolia Wild

Natural order: Menispermaceae

Classical name: *Guduchi, Amrita, Giloy, Gulancha, Gulbel, Madhuparni, Chhinnaroha, Galu, Shindhilkudhi, Kondhalin, Vatsadhani, Tantrika.*

Vernacular name:Sanskrit : Amritavalli, Amrita

English :Moonseed

Hindi :Giloe, Gurcha

Bengali : Gulancha

Parts used:Stem

Ayurvedaproperties: Rasa: Tikta, Kashaya

- Guna:Guru, Snigdha
- Virya: Usna
- Vipaka: Madhura
- Doshaghnata: Tridoasa shamaka
- Rogaghnata:
- Jwara (fever), Vatarakta(gout), Prameha (DM), Kushtha (skin disease), Agnimandhya, Trishna (thirst) , Daha (burning sensation), Kasa (cough), Krimi (worms) , Chhardi (vomiting) , Arshas (piles) ,Netravikara (eye disorders) , Hridroga (Heart disorders)
- *Karma: Rasayana* (Rejuvenation), *Tridosashamaka, Medhya* (Nootropic), *Jvarahara* (Antipyretic), *Dahaprasamana* (burning sensation), *vedanasthapana* (Pain killer), *Kushthaghna*, *Hridya* (Heart tonic)

,Raktashodaka, Raktavardhaka, Jwaraghna (Antipyretic) mootrajanana, (Diuretic) Madhumeha, (DM) Deepana,(Appetizer) Pachana(Digestive) , Chhardinigrahana,(Antiemetic) Anulomana, Balya.(Tonic)

Action and uses: Jwara (fever), Vataj jwara (fever because of vata), Vatarakta (gout), Amlapitta (hyper acidity), Prameha (diabetes), Trishna (thirst), Kustha, Pandu, Kamala. It is useful in burning sensation, hyperdipsia, helminthiasis, dyspepsia, vomiting, flatulence, acid gastritis, jaundice, haemorrhoids, meno-metrorrhagia, intermittent fever, asthma, filarial, diarrhoea and eye diseases.

Chemical constituents: A diterpenoid of columbin type- tinosporin is isolated from plant (sci. Cult. 26: p.140, 1960; Chem. Abstr.61:12331 b, 1964). Tinosporide and cordifolide (Sci.Res.1:177, 1964). Tinosporidine and beta- Sitosterol isolated stems; cordifol, heptacosanol and octacosanol reported from the leaves (Comp. Ind. Med. Plants vol.2 p.679). A new furanoid diterpene- tinosporide from stems (Ind. J. Chem; 16B:317, 1978 & Chem. Abstr. 93.72009c, 1980), 18- norclerodene glucosetinosporide-from stem wood is reported (phytochem. 28:273, 1989 & Chem. Abstr.112:211629; 1990).Five diterpene furan glycosider, viz., cordifolisides A-E and two phenyl propane glycosides are isolated from aq. Extracts 1994).Isocolumbin. (Gangan et al: tetrahydropalmatine, magnoflarine and palmatine

were isolated from roots (Sarma et al; 1998). Ref. Dravya Guna vijnana, Author Dr J.L.Sastry, Chaukhambha orientalia, Varanasi, edition:2015, page no. 39).

Pharmacological activities: Hypoglycemic, CNS depressant, antibacterial, antimicrobial, Antipyretic, anti-inflammatory, antiaarthritic, antiallergic, hepatoprotective, analgesic, immunosuppressive, immunostimulant. antineoplastic, antistress, antidiabetic. antitumour. adaptogenic, antileishmanial, antioxidant, antiendotoxic, hypotensive, diuretic.

Important formulation: *Amritarisa, Amritottara Kvatha Churna, Guduchi Taila, Guducyadi Churna, Guduchi Sattva, Chinnobhavadi Kvatha Churna.*

APAMARGA

Botanical name: Achyranthus asperaLinn.

Natural order: Amaranthaceae

Classical name: Apamarga, Shikhari, Adhashalya, Mayuraka, Aghata, Kharamanjari, Latajeera, Aapang, Utterana, Pratyakapushpa, Katalani, Durgraha, Kinihi,Markati.

Vernacular name:Sanskrit : Mayura, Mayuraka

English : Prickly Chaff Flower

Hindi : Chirchita, Latjira

Bengali : Apamarga

Parts used: Whole plant

Ayurvedaproperties: Rasa: Katu, Tikta

- Guna: Laghu, Ruksha, Tikshna
- Virya: Ushna
- Vipaka: Katu
- Doshaghnata: kaphavatahara
- Rogagnata: Agnimandhya(weak digestion) , Adhmana,(Flatulence) Arsha(Piles) , Apachi, Kandu,(Itching) Dadru(Psorariasis), Chhardi(Vomiting), Udarashula(Abdominal pain), Hridruja(cardiac pain) , Udara,

Mutrakriccha(Dysuria) ,Visucika(Cholera) , Nadivrana

• Karma: *Agnideepaka*,(*appetizer*) Pittasharaka, *Pachaka*,(*Digestive*) Vamaka,(Emetic) Chhedana (excision), *Shothahara*,(anti-inflammatory) *Vedanasthapana* (pain killer) *Lekhana*,(scrapping), Kaphanissaraka, *Mutrala*,(diuretic) Kushthaghna, Raktavardhaka, Krimighna, Raktashodhaka(blood purifier), Vishaghna, (anti-toxic)Rochan, Kandughna etc.

Action and uses: Arsas (piles), Rakta arsas (bleeding piles), Visucika (diarrhoea), Nadivrana (sinus), Atyagi (bhasmaka), Sastraksata (wound),*Shula*,(*pain*) Udara Roga. Apaci, *Kandu(itching)*, *Medoroga*. *Apamarga* root taken with milk overcomes dysuria. Decoction of Apamarga, Kakajangha, Kokilaksha and Suparnika induces sleep (HS.3.15.6). A pair of leaves of Apamarga introduced into the vagina relieves pain instantaneously (GN.6.6.15. Application of the paste of the roots of Apamarga and Punarnava (Borrehevia diffusa) removes vaginal pain during puerperium

Chemical constituents: Betaine, Achyranthine, hentriacontane, ecdysone, aldosterone, inocoterone, oleanolic acid, glycosides and Achyranthes saponins A, B, C,D.

Pharmacological Activities: Antihypertensive, Antidiabetic, Abortifacient, Diuretic, Antileprotic, Purgative, anti-implantation, vasodilator, cardiac stimulant (seed saponins), cardiac depressant (achyranthine), Spasmolytic, Hypoglycemic and Antifungal.

Important formulations: Apamargakshara, Apamargakshara Taila, Abhaya Lavana,Agastya haritaki,Gudhapippali, Jyotishmati Taila, Mahashankha vati.

VIDANGA

Botanical name: Embelia ribesBurm.f.

Natural order: Myrsinaceae

Classical name: Vayavidanga, Vidanga, Krimighna, Chitratandhula, Bhabhiranga, Viggala, Vella, Krimihara, Jantughna

Vernacular name:Sanskrit : *Jantughna, Krimighna,*

English :Embelia fruit

Hindi : Vayavidanga, Bhabhiranga, Baberang

Bengali : Vidang

Parts used: Fruit

Ayurveda properties:

- **Rasa**: Katu, Kashaya
- Guna: Laghu, Ruksha, Tikshna
- Virya:Ushna
- Vipaka: Katu
- **Doshaghnata**: Kaphavata shamak
- Rogagnata: Deepana (appetizer), Vishaghna(anti-toxic), Krimiroga, Udara roga, Adhman(Flautence), Shola(abdominal pain), Kushtha,(skin disease) Agnimandya, Ajirna, Vibandha(constipation), Aruci, Medoroga, Prameha(DM), Vaivarna(discoloration)
- Karma: Krimighna, ,Pachana(digestive) , Anulumana, Mootrajanana,(Diuretic) Sulahara(pain killer), Adhmanahara, Vibandhahara, Vishaghna(anti toxic), Rucya, Medohara, Mehahara, Garbhanirodhaka, Varnya, Rasayana(rejunevation) and Kushthaghna.

Action and uses: Krimi(worm infestation), Kushtha (skin disease), Rasayana (rejuvenating), Visa roga, Shula, Udararoga, aadhmana. Water boiled with Vidanga and added with the same should be used as drink. It destroys worms and disorders caused thereby (BP.Ci.7.23). Those who take Vidanga, Bhallataka and Shunthi with ghee and honey cross over the turbulent stream of old age and diseases (A.H.U.39.152).

Chemical constituents: Rruits yielded Embelin, Quercitol, Tannin, an alkaloid Christembine, Iodoembolin, Bromoembolin, Embelic acid, Fatty ingredients, Volatile oil, Vilangin.

Pharmacological activities: Estrogenic, antihelmintic, antigungal, antioxidant, hepatoprotective, Anticonvulsant, immunostimulant, antiimplantation, antiovulatory, hypotensive, antipyretic, diuretic, antispermatogenic, antiandrogenic, anticancer.

Important formulations: Vidangadi churna, Abhayarishta, Kasisadi ghrita, Vidanga taila, Kaishore guggulu, Vidangarishta, Vidanga Lauha, Vidagadi Lauha, Vayashadi guggulu.

SHANKHAPUSHPI

Botanical name: *Convolvulus pluricaulis*Chois

Natural order: Convolvulaceae

Classical name:Shankhapushpi, Kshirapushpi, Mangalyakusuma, Shankhahuli, Sangkhavel, Shankhavali, Vanvilasini, Tilaki, Shankhavya, Shankhakusuma.

Vernacular name:Sanskrit: Shankapushpi

English: Speed wheel

Hindi: Shankhahuli

Bengali:Shankhapushpi

Parts used: Whole herb

Ayurvedaproperties:

- Rasa: Kashaya, Katu, Tikta
- **Guna**: Snigdha, Pichila, Guru, Sara
- Virya: Shita
- Vipaka: Madhura
- **Doshaghnata**: Tridoshagna
- Rogaghnata: Vatapittavikara, Anidra (insomnia), Ajeerna (indigestion), Daha,(burning sensation) Shoukradourbalya, Manasika Vikaras(mental disorders) , Unmada,(insanity) Apasmara(epilepsy) ,

Dourbalya(debility) Kushtha(skin disease), Krimi(worms), Visavikara,(toxinc effects) Kasa,(cough) Swarabheda(hoarshness of voice), Pooyameha.

• Karma:

Rasayana(Rejuvenation), Tridosashamaka, Medhya (Nootropic), Jvarahara (Antipyretic), Dahaprasamana (burning sensation) , *vedanasthapana* (Pain killer) ,Kushthaghna ,Hridya(Heart tonic) ,Raktashodaka, Raktavardhaka, Jwaraghna (Antipyretic) mootrajanana,(Diuretic) *Madhumeha*,(DM) *Deepana*,(Appetizer) Pachana(Digestive) Chhardinigrahana, (Antiemetic) Anulomana, Balya.(Tonic)

Action and uses: Medhyarasayana (intellect promoter), Unmad (insanity), Apasmara (epilepsy) Vrisya(aphrodisiac), Kantivardhaka, Balya(tonic), Kushthagna, Krimighna, Visaghna(anti *toxic*) Kasahara,(anti tussive) Swarya. Shankhapushpi is rasayana (rejunevating) specially promoting intellect (CS.Ci.3.31). Ghee 10.24 kg should be cooked with three times juice of Shankhapushpi along with milk. By its regular use even the dull becomes and intelligent sharp (A.H.U.39.47). Old *Ghee* cooked with Brhmi juice, Vacha, Kushtha and *Shankhapushpi* alleviates insanity and epilepsy (CS.Ci.10.25)

Chemical constituents : Shankhapushpine, 6methoxy-7-hydroxycoumarin, n-hexacosanol, Carbohydrate-D-glucose, Maltose, Rhamnose, Glacial acetic acid, Scopoletin, Beta sitosterol, Esitosterols, Tropane alkaloids, Kaemferol, Convoline, Convolidine, Convolvine, Confoline, Convosine, Tetratriacontanoic acid.

Pharmacological activities: Sedative, hypotensive, hypolipidemic, antifungal, hypoglycaemic, anti-convulsant, anti-oxidant, anti-depresant and anti-ulcerogenic.

Important formulations: Guduchyadi Churna

(YR), Brahmi Ghrita, Brahmi Vati, Brahma Rasayana, Saraswata Churna, Agastya Haritaki Rasayana, Jeevaniya Ghrita, Shankhapushpi Panaka.

VACHA

Botanical name: Acorus calamusLinn.

Natural order: Araceae

Classical name: Vacha, Ugragandha, Swaragrantha, Golomee, Vekhandha, Vaja, Varcha, Varaja, Vaya, Karunaka, Vasambho, Kshudrapatra, Shataparvika, Mangalya.

Vernacular name:Sanskrit: Ugragandha, Ugra, Shadh·grantha

English : *The Sweet Flag*

Hindi: Bach, Gora-bach

Bengali: Bach

Parts used: Rhizome

Ayurveda properties:Rasa: Katu, Tikta

- Guna: Laghu, Tikshna
- Virya: Ushna
- Vipaka:Katu
- Doshaghnata: Kaphavatashamaka
- Rogaghnata: Unmada(insanity) , Apasmara,(epilepsy) Sthoulya(obesity) , Murchha(syncope) , Agnimandya (weak digestion) , Ajirna(indigestion) , Arsas(piles), Krimi(worms) , Udarasula(abdominal pain), Jwara(fever), Adhmana,(flatulence)Vibandha(constipatio n) , Mukharoga, Swarasada, Atisara (diarrhea) and Mutradosha.(urine disorders)

• *Karma: Medhya (nootropic), Lekhana, (scrapper) Vamaka (emetic) , Dipana (appetizer) , vedanasthapana (Pain killer) , Kushthaghna ,Hridya (Heart tonic) ,Raktashodaka, Raktavardhaka, Jwaraghna (Antipyretic) mootrajanana,(Diuretic) Madhumeha, (DM) Deepana,(Appetizer)*

Pachana (Digestive), Chhardinigrahana, (Antiemetic) Anulomana, Bhutaghna,

Action and uses: *Rasayana* (Rejuvenation), *Apasmara* (Epilepsy), *Sotha* (oedema), *Suryavarta*, *Visamajwara* (malaria) *Shula* (*pain*), *Shvasa* (*asthma*), *Kasa* (*cough*), *Vibandha* (*constipation*), *Unmada* (*insanity*), *Aadhmana*, *Karna Srava*, *Smriti daurbalya* (*weak memory*) By using for a month *Vacha* with milk or *ghee* or oil one becomes invincible for pathogenic agents and endowed with sharp intellect and sweet voice (AH.U.39.164). One who keeps the nodular piece of *Vacha* in mouth day and night gets rid of the diseases of mouth (HS.3.46.31).

Chemical constituents: Rhizome of *Vacha* contains 1.5 to 3,5% of volatile oil, Starch, Resin (2.5%), and Tannin. Volatile oil contains asaradehyde, Asarone, and eugenol. Other constitutuents include beta asarone, Calamenol, Calamene, Calamenone, Methyle eugenol, alfa pinene and camphene.

Pharmacological activities: Vermifuse,

carminative, tranquilizer, sedative, hypothermic, anticonvulsant, carcinogenic, antimicrobial, anthelmintic, insecticidal, antibacterial and CNS depressant.

Important formulations: Ashwagandharishta, Vachadi Taila, Vacha Lasunadi Taila, Sarasvata, Churna, Sarasvata Rista, Manasmitra Vataka, Candra Prabha Vati, Khadiradi Vati, Hinguvacadi Churna.

HARITAKI

Botanical name: *Terminalia chebula*Retz.

Natural order:Combretaceae

Classical name: Haritaki, Abhaya, Pathya, Chetaki, Rohini, Haimavati, Shiva, Hare, Halilaja, Karakkai, Putana, Vayastha, Kayastha

Vernacular name:Sanskrit :*Abhaya, Kayastha, Shiva, Pathya, Vijaya (Not Bhaaga)*

English :Myrobalan

Hindi :Harre, Harad, Harar

Bengali :Haritaki

Parts used: Fruit

Ayurvedaproperties:

- **Rasa**: Kashaya pradhana, Pancharasa lavanavarjita
- Guna: Laghu, ruksa
- Virya: Usna
- Vipaka: Madhura
- **Doshaghnata**: Tridosahara, specially vatashamaka
- Rogaghnata: Vatavyadhi, Shothavedanayukta vikara (inflammatory conditions), Vrana (wound), Mukharoga, Kantharoga, Nadi daurbalya, Mastishka daurbalva (brain disorders). Netrabhishyanda (conjunctivitis), **Drishtimandya** (diminution of vision.) *Indryadaurbalya* (diminished senses), Agnimandya, Shoola (pain), Anaha, Gulma , Vibandha, (abdominal tumour) Arsha (piles), Kamala (constipation) (jaundice), Yakritpleeha vridhi (spleenliver enlargement), Krimiroga, *Hriddaurbalya* (cardiac inefficiency), Vatarakta (gout), Raktavikara, Shotha (inflammation), Pratishyaya (sinusitis), Kasa (cough), Swarabedha, Hikka (hiccups), Swasa,(asthma) Sukrameha, Shwetapradara (leucorrhea) Mootrakrichchhra, (dysuria) Mootraghata, Ashmari (stone), Kushtha (skin disease), Visarpa,(erysipelas) Vishama jwara,(malaria) Jeernajwara (chronic *fever*)
- Karma: Rasavana (Rejuvenation), Tridosashamaka, Medhya (Nootropic), Jvarahara (Antipyretic), Dahaprasamana (burning sensation), vedanasthapana (Pain killer), Kushthaghna, Hridya (Heart tonic), Anulomana. Krimighna, Kaphaghna, Vrishya (aphorodiasic) Grahi, Prajasthapana, Mootrala (diuretic) Kushthaghna (antileprosy), Mridurechana

(soft purgatives) , Shonitasthapana, Garbhashayashothahara, (antiinflammatory), Yakrituttejaka. (hepatic stimulants).

Action and uses: Rasayana, Parinama sula (duodenal ulcer), Vatavyadhi (disorder of vata), Atisweda (exssive sweating), Vibandha (constipation), Chhardi (vomiting), Arsas (piles), Shotha, Arsha, Aruci, Hridroga, Kasa, Pandu, Prameha, Udavarta, Vibandha, Jirnajvara, Visamajvara, Siroroga, Tamaka svasa, Gulma, Udararoga, Haritaki fried in ghee should be taken followed by intake of ghee. It provides firm strength in the body (AH.U.39.148). In prameha, Haritaki powder should be taken with honey (As.Ci.14.5). Haritaki, Pippali and Shunthiis known as 'trisama', which promotes digestive power and prevents thirst etc.

Chemical constituents: Anthraquinone glycoside, chebulinic acid, chebulagic acid, tannic acid, terchebin, tetrachebulin, vitamin C (fruits); arachidic, behenic, linoleic, oleic, palmitic and stearic acids (fruit kernels); chebulin (flowers); 2alpha-hydroxymicromeric acid, maslinic acid and 2alpha hydroxyl ursoloic acid(leaves)

Pharmacological activities: Antimicrobial, antifungal, antibacterial, antistress, antispasmodic, hypotensive, hypolipidemic, anthelmintic, purgative, cytoprotective, cardiotonic, antihelmintic, antihepatitis B virus activity, inhibitory activity against HIV-1 protease.

Importantformulations:Triphalachurna,TriphaladiTaila, Abhayarishta, Agastyaharitakirasayana,CitrakaHaritaki,DantiHaritaki,DasamulaHaritaki,BrahmaRasayana,AbhayaLavana,PathyadiLepa.Haritaki,Lavana,

SHUNTHI

Botanical name: Zingiber officinaleRosc.

Natural order:Zingiberaceae

Classical name: Mahaushadha, Nagara, Sunthi,

Visvabhesajya, Sringbera, Sonth, Janjavila, Katubhadra, ardrika, Ardraka.

Vernacular name:Sanskrit: Aushadha, Muhaushadha,

English: Ginger root, Ginger

Hindi : Sonth

Bengali: Suntha, Sunthi

Parts used:Dry rhizome

Ayurvedaproperties:

- Rasa: Katu
- Guna: Laghu, Snighdha
- Virya: Ushna
- Vipaka: Madhura
- **Doshaghnata**: Vatakaphashamaka
- **Rogaghnata**: Ajirna, (indigestion) Amavata • (*Rheumatoid* arthritis), Agnimanghya, Chhardi(vomiting), Anaha, Sula(pain), Vibandha(constipation) *Slipada*,(*elephantiasis*) Shool vatakaphahara, Shopha(inflammation), Kasa,(cough) Hikka,(hiccups) Grahani roga,(sprue) Sheet-pitta(urticaria), Pandu jwara(Anemic *fever*) *Pratishyaya(sinusitis)*, *Deepana(appetizer)*, *Karnashoola.(ear pain)*
- Karma: Vatakaphashamaka, Anulomana, Deepana (appetizer), Pachana(digestives), Rochana, Vrishya(Aphorodiasic), Jwaraghna(antipyretic), Sothahara(antiinflammatory), Hridya, Amadoshahara, Arshoghna, Vedanasthapana(pain killer) etc.

Action and uses: Agnimandya (loss of appetite), Aruci (anorexia), Arsas (haemaroids), Sitapitta (urticaria), Parinamasula (duodenal ulcer), Sotha (oedema), Sira sula (headache), Visucika (diarroea).Shvasa, Adhmana, Aamavata, Pandu, Udararoga.

Chemical constituents: Heptane, Octane, Isovaleraldehyde, nonanol, ethyl pinene, camphene, beta pinene, sabinene, myrecene, limonene, beta

phellandrane, 1,8 cineole, alfa-farnesene, betafarnesene, gingerol, hexahydrocucuromin, gingerone A, B & C,resin, starch, thiamine, riboflavin, niacin, vitamin C, carotone,

Pharmacological activities: Anti-allergic activity, Anti inflammatory, hypolipidemic, antibacterial, antiemetic, antifungal, antipyretic, antiplatelet, antitumoral, hypourecemic, antidepressant, hepatoprotective, hypoglycaemic, inhibition of prostaglandin release, analgesic activity, antioxidative effect and bioavailability enhancing activity.

Important formulations:Trikatu, Erandapaka,PanchakolaChurna,Abhayarishta,Ashwagandharishta,ShunthiGhrita,RasanadiJwatha,Saubhagyshunthi,SaubhagyaVati,VaishvanaraChurna.Churna,Churna,

SHATAVARI

Botanical Name: Asparagus racemosus willd Natural Order: Liliaceae

Classical NamesShatapadi, Bahusuta, Atirasa,Mahodari,Narayani,Shataveerya,Shatamooli,Bhiru,Indivari, Vari, Urdhwakantika,Rishyaprokta, Pivari.

Vernacular Names:Sanskrit:Shatavari

English: Wild asparagus

Hindi:Shatawar, Satamuli

Bengali:Satavari

Parts Used: Root

AyurvedaProperties: Rasa: Madhura, Tikta

Guna: Guru, Snigdha

Virya: Sita

Vipaka: Madhura

Doshaghnata:Vatapittashamaka

Rogaghnata : Rasayana (Rejuvenator) ,Dourbalya(Debility), Shukrakshaya (Oligozoospermia) ,Stanyakhsaya,(Decreased milk production)Mutrakrichchhra(Dysuria), Arsha(Piles),Vatavikara, grahani (Sprue) , Gulma (Abdominaltumour), Manasika vikara (Mental disorders),Hridaroga (Cardiac disorders) , Shotha(inflammation) ,Amlapitta, Raktapitta, Kshaya,Drishtimandya (diminished vision).

Review Article.

Karma:Rasayana (Rejuvenator), Pittashamaka, Grahi, Sukrala, Nadibaladayaka, Garbhaposhaka, Mootrala,(diuretic) Stanyajanana (galactogogue), Balya (tonic), Medhya (nootropic) ,Vedanasthapana ,(pain killer) Chakshushya (promotion of Eye health), Raktapittashamaka, etc

Uses: Action and Stanya vardhanartha (galactogogue) Rasayana (rejuvenative). Swarabheda (hoarseness of voice). In intrinsic haemorrhage and diarrhoea-Shatavaryadi ghrita, Shatavari in piles and diarrhoea, Shatavari juice mixed with honey in biliary colic, *Shatavari* powder with cold water in dysuria, Shatavari with milk as galactogogne, and *Shatavari* cooked with ghee and decoction as rasayana etc. The roots are bitter, sweet, emollient, cooling. nervine tonic. constipating, ophthalmic, anodyne, aphrodisiac, diuretic. carminative, appetiser, stomachic, antispasmodic and tonic. They are useful nervous disorders, dysentery, in tumours. inflammations, burning sensation, hyperdipsia, ophthalmopathy, nephropathy, hepatopathy, strangury, burning micturition, throat infections, tuberculosis, cough, bronchitis, gleet, gonorrhoea, cardiac debility, leucorrhoea, leprosy, epilepsy, fatigue, hyperacidity, haemorrhoids, hypertension, abortion, agalactia and general debility.

Chemial Constituents: Sarsapogenin, Saponin A4-A7, glycosides of quercetin, rutin, hyperoside in flower and fruits, diosgenin, quercetin 3glucoronide in leaves, sitasterol and stigmasterol along with their glucosides, two spirostanolic and furostanolic saponoins and sapogenin, 4 saponins, viz, Shatavarin I to IV, Polycyclic alkaloids, asparagamine A and disaccharide in roots are reported.

Pharmacological activities: Antioxytotic (Shatavarin IV), diuretic, galactogogue, anticancer, antifungal, hypotensive, antiamoebic, nematicidal, gastric-sedative, antidysentric, spasmodic to uterus, anticoagulant, antiabortifacient (shatavarin I), enzymatic, hypoglycaemic and phagocytic.

Important formulations:ShatvaryadiChurna,ShatavaryadiGhrita(CS.Ci.4.95-96),Puga

Khanda, Phalaghrita, Narayana Taila, Guduchyadi Taila, Shatamoolyadi Lauha, Brihatashwagandha Ghrita, Eranda paka, Shatavari Garbhachintamani Rasa, Brihatchagaladya Ghrita, Vishnu Taila.

DISCUSSION:

PROBABLE MODE OF ACTION OF 'GUDUCHYADI CHURNA':

ACCORDING TO AYURVEDA CONCEPTS:

Guduchyadi Churna' is having mainly Katu, Tikta, Kashaya Rasa (bitter-pungent-astringent taste) and 3 drugs are Katu Vipaka; Ushna Virya; Laghu, Snigdha, Tikshna Guna and Vata-Kaphashamaka effects. The drug is also having Rasayana (rejuvenator) ,Dipana (appetizer), Pachana (digestive) Anulomana, Vayasthapana(anti-ageing) , Balya(tonic) and Medhya(nootropic) properties. In the 'Guduchyadi Churna' like Guduchi, Apamarga, Vidanga, Vacha, Haritaki and Shunthi which are having Usna Virya; Laghu, Ruksha Gunaof Apamarga, Vidanga, Haritakiand Prabhava posses Dipana (appetizer), Pachana (digestive) and Vatanulomana properties in the drug helps in regulation of Agni and combating Agnivaishamaya. But in spite of Dipana (appetizer), Pachana (digestive), Anulomana properties they have **Tridoshahara** activities Guduchi, like Shankhapushpi, Haritaki; and Shunthi, Vacha, Vidanga, Apamarga isKapha-Vatashamaka and Shatavari is Vata-Pittashamaka. This 'Guduchvadi Churna' due to its properties like Madhura Rasa and Madhura Vipaka; Snigdha & Guru Guna; Sita Virya of Shatavari and Sita Virya & Madhura Vipaka of Shankhapushpi; Madhura Vipaka of Guduchi, Haritaki, Shunthi act as Rasayana, Balya, Vayasthapana, Medhya and Vata-Pitta Shamaka and helps in *Dhatu* formation & keeps the body free from Jara /aging. The ingredients of 'Guduchyadi Churna' like Shunthi, Vacha, Vidanga, Apamarga having Kapha-Vatashamaka due to their Katu Rasa & Ushna Virya properties. Shankhapushpi shows Rasavana ,Dipana (rejuvenator) (appetizer), Pachana (digestive) Anulomana,

Vayasthapana(anti-ageing) . *Balya(tonic)* and Medhya (nootropic) properties *Vrishya(aphorodiasic)* Nadibalya, Manashikavikaraka(mental *disorders*) Hridya,(heart tonic) Nidrajanana, Tridoshahara properties and sedative, hypotensive, antidepresant, Anti-convulsant and antioxidant Guduchi also possesses Rasayana activities. (rejuvenator) ,Dipana (appetizer), Pachana (digestive) Anulomana, Vayasthapana(anti-ageing) , *Balya(tonic)* and *Medhya(nootropic)* properties Vedanasthjapana Balya& Tridoshahara properties and CNS depressant, hypoglycemic, anti-stress, adaptogenic, diuretic, analgesic-anti-inflammatory, antimicrobial & anti-oxidant activity. All drugs present in 'Guduchyadi Churna' are Rasayana (rejuvenator) and act on Manovaha Srotas for which vitiated *Manas Doshas* are returns back to its normal condition and helps in reducing psychological symptoms associated with Postmenopausal Syndrome. Presents of Shankhapushpi, Haritaki and Shunthi in *'Guduchyadi Churna'* may helps in Sexual problems as they are having *Rasayana* (rejuvenator) & Vrishya (aphrodisiac) activity and further research is needed to get the Significant result in Postmenopausal Syndrome statistically. Due to all these properties together 'Guduchyadi Churna' is able to relieve symptoms of *Dhatukshaya*, vitiated Vata-Pitta-Kapha, **Agnivaishamya** and Manovahasrotas (psychological).

ACCORDING TO MODERN SCIENCE:

Mode of action of *'Guduchyadi Churna'* also depends upon properties and pharmacological action of their ingredients of the drug. The pharmacological actions of the ingredients are –

1. *Guduchi:* Hypoglycemic, CNS depressant, antibacterial, anti-microbial, Anti-pyretic, anti-inflammatory, anti-arthritic, antiallergic, hepato-protective, analgesic, immunosuppressive, immune-stimulant, anti-neoplastic, anti-stress, anti-tumour, adaptogenic, antileishmanial, antioxidant, anti-endotoxic, hypotensive, diuretic

- 2. *Apamarga:* Antihypertensive, Anti-diabetic, Abortifaecient, Diuretic, Anti-leprotic, Purgative, anti implantation, vasodilator, cardiac stimulant (seed saponins), cardiac depressant (achyranthine), Spasmolytic, Hypoglycaemic and Antifungal
- 3. *Vidanga:* Estrogenic, antihelmintic, antifungal, antioxidant, hepato-protective, Anticonvulsant, immune-stimulant, antiimplantation, antiovulatory, hypotensive, antipyretic, diuretic, antispermatogenic, anti-androgenic and anticancer.
- 4. *Shankhapushi:* Sedative, hypotensive, hypolipidemic, antifungal, hypoglycaemic, anti-convulsant, anti-oxidant, anti-depresant and anti-ulcerogenic.
- 5. *Vacha:* Vermifuse, carminative, tranquilizer, sedative, hypothermic, anticonvulsant, carcinogenic, antimicrobial, anthelmintic, insecticidal, antibacterial and CNS depressant
- 6. *Haritaki:* Antimicrobial, antifungal, antibacterial, antistress, antispasmodic,

hypotensive, hypolipidemic, anthelmintic, purgative, cytoprotective, cardiotonic, antihelmintic, antihepatitis B virus activity, inhibitory activity against HIV-1 protease

- 7. Shunthi: Anti-allergic activity, Anti inflammatory, hypolipidemic, antibacterial, antiemetic, antifungal, antipyretic, antiplatelet, antitumoral, hypourecemic, antidepressant, hepatoprotective, hypoglycaemic, inhibition of prostaglandin release, analgesic activity, antioxidative effect and bioavailability enhancing activity.
- 8. Shatavari: Antioxytotic (Shatavarin IV), diuretic. galactogogue, anticancer. hypotensive, antifungal, antiamoebic, nematicidal, gastric-sedative, antidysentric, spasmodic to uterus. anticoagulant, antiabortifacient (shatavarin I), enzymatic, hypoglycaemic So, the drug 'Guduchyadi Churna' can be effective on somatopsychological and other symptoms of Postmenopausal Syndrome by its various pharmacological actions.

CONCLUSION:

GuduchyadiChurna' would be better choice in Postmenopausal Syndrome with osteoporosis. the drug can be used in the management of Postmenopausal Syndrome with Diabetes Mellitus. *'GuduchyadiChurna'* is an effective, safe, promising and cost effective remedy

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