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Review Article

ROLE OF SHUNTHI BILVA KWATHA WITH YAVA SAKTU IN GARBHINI CHHARDI (EMESIS GRAVIDARUM)

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ABSTRACT

Garbhini Chhardi, or pregnancy related nausea and vomiting, is a common problem that causes discomfort, dehydration, and digestive issues in many pregnant women. This article discusses how Shunthi bilva kwatha with Yava saktu can help manage this condition through an Ayurvedic approach Zingiber officinaleis (dry ginger) and Aegle marmelos (Bilva) known for its Vata-balancing, digestive-stimulating, and appetite-improving properties. These actions help regulate *Vata dosha*, support the digestive system, increases the *Agni* and reduce feelings of nausea. Hordeum vulgare (roasted barley) has thirst-relieving and Kapha-reducing qualities. It helps control excessive thirst and balances *Kapha*, both of which are commonly linked to nausea and vomiting during pregnancy. The article highlights how these two ingredients work together to give better relief from Garbhini Chhardi (vomiting during pregnancy). Their combined effect helps tackle the root causes by supporting digestion, balancing the *Doshas* and keeping the body hydrated. Because of this, the remedy helps reduce both how often vomiting happens and how strong it feels. Along with that, this mixture is easy to take and fits well into the busy routine of today's expecting mothers. Overall, this Ayurvedic combination offers a safe, natural, and effective way to manage pregnancy-related vomiting, helping ensure comfort and well-being for both the mother and the baby In Ayurveda Acharyas have advised that the patient's provided numerous formulations for addressing Garbhini Chhardi This study evaluates the effectiveness of Shunthi Bilwa Kwath Combined with Yava Saktu in managing this condition.

INTRODUCTION

Pregnancy is a life changing event of every woman's life. From conception to delivery, Women have to face various problems in pregnancy so *Acharya Charaka* declare that pregnant women require the utmost care since they are like *Tail Poorna Patra* which spill off with even by little shaking. Ayurveda enlists such complication under the title of *Garbhopdrava. Garbhini Chardi* is most common *Upadrava* among them. In *Harita Samhita Harit Acharya* described *Ashta Garbhopdrava.* [1] *Garbhini chhardi (Emesis gravidarum)* which is recognized as *Vyakta Garbha Lakshana*, i.e.,

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fully sign of pregnancy 1 alongside other symptoms. [2] Garbhini Chardi is considered as a symptom of Garbhini not a disease. Is described as a complication of Garbha that occurs in pregnant woman Due to Garbha Vrudi and Dauharidaya Avamana, Vata Vriddhi (Udana and Vyana Vvayu) so Kapha Dushti together with the Pitta Dushti and on other hand, in today's life, due to sedentary and changed lifestyle, changed food habits that is Apathyakara Ahar-Vihar, there is Aam Utpatti due to Agni Mandya Agnimandya is main reason for Aam which is the prime source of Vyadhi Utpatti[3] than cause Avarodha to Gati of Vata so Urdhwagamana of Utklisht Dosha by Udana and Vyana Vayu and cause Hrillas and Mukhachhadana as Samprapti of Chhardi.

AIM AND OBJECTIVES

 To understand the role of Shunthi Bilva Kwatha with Yuva Saktu in Garbhini Chhardi w.r.s to Emesis Gravidarum.

- 2. To understand the traditional uses of *Shunthi* (Zingiber officinale), *Bilva* (Aegle marmelos) And *Yuva Saktu* (*Hordeum vulgare*-roasted powder).
- 3. To study the morphology, pharmacodynamics properties, pharmacological action of *Shunthi Bilva* and *Yava Saktu*.

MATERIALSAND METHODS

Materials

Materials related to *Zingiber Officinale* (Shunthi) Aegle marmelos (Bilva) and Hordeum Vulgare (Yava Saktu) have been collected from classical literature, textbooks and various published scientific journals and articles.

Methods

A brief overview of *Zingiber officinale* (*Shunthi*), *Aegle marmelos* (*Bilva*), and *Hordeum Vulgare* (*Yava Saktu*) its chemical constituents, pharmacological actions, probable mode of action in *Garbhini Chhardi*, and traditional uses are presented in the results, summarized in below section.

Drug Study: In the present study *Shunthi Bilva Kwatha* with *Yuva Saktu* was used in clinical trial. The following drugs used for its preparation.

Shunthi

Botanical Name-*Zingiber Officinale Rosc.*

Family-*Zingiberaceae*/*Scitamineae*

Synonyms^[4]

Sanskrit: Ausadha, Muhausadha, Nagara, Vishva, Vishvabhesaja, Shringavera, Vishva, Vishvausadha. Hindi- Sonth

English- Ginger root, ginger

Botanical Description:^[5]

It is an erect perennial herb with aromatic rhizome. Stem- it is erect leafy, 15-150cm tall. Leaves-Subsessile, linear-lanceolate or lanceolate, acuminate, glabrous, 10-30cm long. Flowers- shoot upto 12cm long, clothed with sheaths; bract 2-5cm x 2cm, light green; corolla tube light yellow, lip orbicular, dull purple with creamy blotches. Flowering and fruiting during July-September.



Figure 1: Dry Ginger
Macroscopic description of Rhizome⁶

Rhizome is laterally compressed bearing short, flattish, ovate, oblique, branches on upper side and each having at its apex a depressed scar, pieces are about 5-15 cm long, 1.5-6.5 cm wide (usually 3-4 cm) & 1-1.5 cm thick, externally it is buff coloured showing longitudinal striations and occasional loose fibres, fracture is short, smooth, transverse surface exhibiting narrow cortex, a well-marked endodermis and a wide stele showing numerous scattered fibro-vascular bundles and yellow secreting cells, odour is agreeable and aromatic, taste is agreeable and pungent.

Major Chemical constituents^[7] α-curcumene, β-D-curcumene, β-bourbornene, d-borneal, citral, d-camphene, citronellol, geraniol, gingerol, α- & β-Zingiberenes, zingiberol, zingerone, gingerols, paradol, gingerenone A, ginger glycolipids A, B, & C; gingerdiol, gingerone, B & C etc.

Therapeutic Uses[8,9]

- *Agnimandya- Sunthi* and *Haritaki* should be taken in equal quantity with jiggery or *Saindhava lavana*.
- Jaladosha- Ardraka and Yavaksara are taken together with lukewarm water.
- Pratisyaya Ardraka is given with milk.
- Kaphaja Arshas Ardraka and Kulutha are used.
- Murcha Ardraka svarasa is used as Nasya.
- *Parinam shula* Paste of *Shunthi, Tila* and *Guda* has to be consumed with milk.
- Shotha- Consuming equal quantity of Shunthi and jiggery with Punarnava kashaya is beneficial in Shotha.
- Shirashula- Nashya of Guda and Shunthi kalka is beneficial in Shirashula.
- Visucika- Kwatha prepared from Shunthi and Bilwa is useful.

Table 1: Classical Categorization

USHD

Charaka ^[10]	Triptighna, Arshoghna, Dipaniya, Shulaprasamana, Trishna nigrahana			
Sushruta ^[11]	Pippalyadi, Trikatu			
Bhavparkash Nighantu ^[12]	Harityadi Varga			
Vagbhata ^[13]	<u>Pippalyadi varga</u>			
Dhanwantari Nighantu ^[14]	Satapuspadi Varga			
Raj Nighantu ^[15]	Pippalyadi varga			
Kaiydeva Nighantu ^[16]	Ausadhi varga			

Priya Nighantu ^[17]	Pippalyadi varga
Nighantu Adarsh ^[18]	Pippalyadi Arkadi varga
Shaligram Nighantu ^[19]	Harityakadi varg

Indication:^[20] Shula, Amavata, Adhmana, Atisara, Shlipada, Kasa, Shvasa, Hridroga, Shopha, Arshas, Hikka, Vibandha, Raktapitta, Pandu, Vrana, Jwara, Kustha, Agnimandya.

Table 2: Pharmacodynamics Properties of of Sunthi (Zingiber officinale Rosc.) as per Classics.

Properties	BPN ¹²	DN ¹⁴	KN ¹⁶	PN ¹⁷	MPN ¹⁸	NA ¹⁸	RN ¹⁵	SN ²¹	SGN ¹⁹
Rasa	Katu	-	Katu	-	Katu	-	Katu	-	Katu
Guna	Guru, Tikshna	Snigdha	Snigdha Laghu	-	Guru	Snigdha, Laghu	Snigdha	Snigdha	Snigdha Laghu
Virya	Ushna	Ushna	Ushna	-	Ushna	Ushna	Ushna	Ushna	Ushna
Vipaka	Madhura	Katu	Madhura	-		Madhura		Madhura	Madhura

Karma-_Vataanulomana, Triptighna Rochna-Dipana Pachna.

Doshaghnata- Kapha- Vata Samaka, Pittasamaka

Part Used-Rhizome

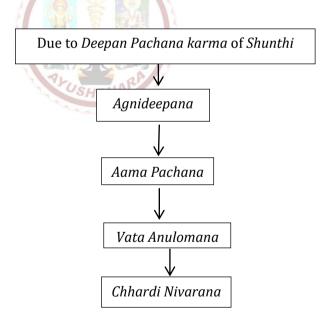
Dosage – Fresh Juice 5-10ml, Powder 1-2 gm; syrup 2-4 ml

Drug interactions^[22]- *Shunthi* can interact with anti-inflammatory medications such as ibuprofen. It can also interact with aspirin, warfarin, heparin and other drugs that effect bleeding tendencies or platelet count.

Abbreviation

BPN- Bhav Prakash Nighantu, DN-Dhanvantri Nighantu, KN-Kaiydeva Nighantu, PN-Priya Nighantu, MPN-Madanpal Nighantu, NA-Nighantu Aadarsh, RN-Raj Nighantu, SN-Sankar Nighantu, SGN-Shaligram Nighantu

Probable mode of action of Shunthi



Bilva

Botanical name: Aegle marmelos (L.) correa Synonyms: A.Lynos Crateva maemelos (L.)

Notable Synonyms in Ayurveda^[25]

बिल्व् शाण्डिल्यशैल्षौ माल्रश्रीफलावपि. श्रीफलस्त्वरण्स्क्तो ग्राही रूक्षो अण्निपितकृत ॥

वातश्रेष्महरोबल्यो लघ्रष्णश्च.. (भा.प्र. निघण्ट् आम्रादिफलवर्ग 56/26)

Bilva: Which pacify Vata and Kapha. Shandilya: It decreases sexual desire. Shriphala: Fruit is considered auspicious. Shailusha: Grown even in hilly areas. *Malur:* Useful in bowel aliments. *Tripatra:* Having three leaves.

Mahakapitta: Resembles large Kapittha fruit.

Taxonomy of *Aegle marmelos*

Table 3: Taxonomic classification of A.marmelos L [24]

Vernacular name of Aegle marmelos

Table 4: Classical categorization ^[26]				
Charak	Sothahara, Arshoghna, Asthapanopag			
Sushrut	Brahatpanchmoola			
Bhavprakash	Guduchyadi varga, Varunadi varga			
Kaydev N.	Aushadi			
Raj N.	Amradi varga			
Dhanwantar N.	Guduchyadi varga			

Table 5: Pharmacodynamics (Rasa panchaka)[27]

Rasa	Madhura, Tikta, Kasaya
Guna	Laghu, Ruksa, Tiksna
Virya	Usna
Vipak	Katu
Dosh karma	Kaphahara Pittahara,Vatahara

Botanical Description^[28]

Aegle marmelos is a slow-growing, medium sized tree, up to 25 -30 feet in height with short trunk, thick, soft, flaking bark, and has few spiny branches. The full botanical description of A. marmelos is given in Table 6.



Figure 2: Bilva
Table 6: Botanical Description of A. marmelos L

Plant part	Morphological characters				
Bark	The bark is brownish or grey in colour and it contains a no. of straight long spines.				
Leaf	These leaves are trifoliate and having round base and pointed tip. Young leaves are light green & Matured leaves are dark green in color.				
Flower	The flowers are greenish or yellowish in color and bisexual in nature.				
Fruit	The bael fruit is green in unripe stage and it changes to yellowish brown when ripen. It contains 15-20 orange pulp inside of the fruit.				
Seed	The seeds are small, hard, flattened-oblong, bearing wooly hairs and each enclosed in adhesive sac				

Pharmacodynamics Properties of *Bilva* as per Classics Neha et al. / Pharma Science Monitor 5(2), Apr-Jun 2014,21-30

	Bhavaprakash Nighantu ^[29]	Shaligram Nighantu ^[30]	Kaiyadeva Nighantu ^[31]	Dhanwantari Nighant ^[32]
Bilva Patra (Leaves)	Vatahar, Shothahar, Jwara har, Sleshmanisarak, Grahi aamshulaghan	Kapha, Vata aam and Shoolnashak grahi and Rochak	Vatahar and Sangra	
Bilva Pushpa (Flowers)	Beneficial in Atisar (diarrhea) Trusha (thirst), Vaman (vomiting)	Beneficial in Atisar (diarrhea) Trusha (thirst) and Vaman (vomiting)	Beneficial in Atisar (diarrhoea) Trushana (thirst) and Vaman (vomiting)	
Bilva Moola	Vatanadi Sansthan, Shamak, Madhur, Chhardighan, Vatahara		Madhur, Laghu, Tridoshahar cure vomiting, dysourea (Mutrakrichha) and Shoola	Tridoshanasak chhardinasak Madhur in Rasa and Laghu in Guna.
Bilva Taila		-Ushna and Vata vinashak	Ushna and Uttam vatahar	
Bilva Phala	Unripe fruit - Katu, Tikta fruit, Kashaya snigdh, Ushna, Deepan, Grahi, Vatakapha nashak, protect to intestine. Ripe fruit- Madhur sugandhi guru (heavy), Vidahi vishtambhi, Durjar doshkar, Anulomic durgandhayukta	A PUSHI	Unripe fruit – Katu, Kashaya, Tikta Rasa, Ushana in Veerya Deepan, Pachan, Tikshna, Laghu, Grahi, Hridya, Vatkaphanashak Ripe fruits- Madhur Anurasa, Guru, Vidahi, Vishtambhi, Durjar, Doshkar, diminished, Jathragni, rot smelling due to Apanvayu vikruti.	Unripe fruit – Snighdha in guna, Sangrahi Deepan, Katu Tikta, Kashaya in Rasa, Tikshna, Vata Kapha shamak. Ripe fruit– Madhur Anurasa, Guru in Guna, Vidhahi vishtambhakar, rot smelling due to Apan vayu vikruti.
Bilva Peshika (Dry pulp)	<u></u>	Kapha, Vata, Aam, Shoolnashak, Malarodhak	Kaphavata shamak, Aam packak, Grahi, Aam pachak, Grahi, Shoolhar	=

Actions and single formulation[33]

1. Root (Moola)

- The roots are sweet, astringent, bitter. It has Laghu, Ushna guna, Tridoshaghna properties and useful in vomiting, dysurea^[34], asthma, cough, hiccough, tuberculosis, fever, diarrhoea, stomach ache.^[35]
- Charak mentioned Bilva root in Arshoghna, Asthapanopaga, Anuvasanopaga and Shothaharadashemani. Sushruta and Vagbhata comprised in Brihatpanchmoolagana.
- Decoction of *Brihat Panchmoola* mixed with honey alleviates obesity.[36]
- *Bilva* roots were recommended as diet in asthma and hiccough. [37]
- Roots of *Punarnavadwaya* and *Bilva* relieved fever with oedema. [38]
- Roots of *Bilva, Eranda, Chitrak* with *Shunthi, Hingu, Saidhav* relives any type of stomach ache. [39]
- Root crushed and applied with gruel on umbilical region relieved dysuria. [40].
- Root decoction after removing outer layer should be taken with milk promotes longevity.^[41]

• Bilva Moola used in Vataja Chhardi (Ch Chi. 20/23)

Stem bark (Twak)

- Decoction of stem bark of *Bilva* with *Putikaranj, Shami, Udumbar* etc. is made for bathing child with it. This is said to promote longevity. [42]
- Stem bark of *Bilva* with honey checks vomiting from *Tridosha*.[43]

Unripe fruit (Apakvaphala)

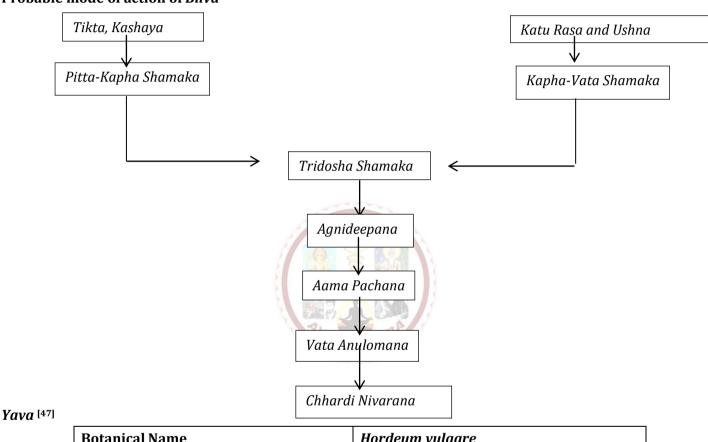
• Unripe fruits are bitter, astringent, and acrid and it has *Snighdha-Tikshna-Laghu guna*, *Ushna veerya*,

- Vatakaphagha, Sangrahi, Deepana, Pachana, Aamanashana, Ruchya and Hridya properties.^[44]
- Sushruta and Vagbhata mentioned Bilva in Ambashthadi which cure chronic diarrhoea, heal fractures, good for Pitta and healers of ulcers.
- Intake of *Bilva* with jaggery checks diarrhoea with blood, relieves pain due to *Ama* and constipation and alleviates disorders of bowels.^[45]

Chemical constituents^[46]

Marmelosin, Aegelin, Aegelinin, Marmin, Musilaze, Poctine, Sugar, Volatile oil etc.

Probable mode of action of Bilva



Dotaineal Name	nor deam vargar e
Family	Poaceae (Graminae)
Rasa	Kasaya Madhura
Guna	Ruksha, Laghu
Virya	Sita
Vipaka	Madhura
Doshaghnata	Kaphapittahara
Karma	Chardinigraha, Agnivardhana, Balya

Phala

Starch, protein, sucrose, fibre

Chemical composition

Prayojyanga

Pharmacodynamics Properties of Yava Saktu (Hordeum vulgare-roasted powder) as per Classics[48]

Rasa	Kashaya Madhura
Guna	Ruksha, Laghu
Virya	Sheeta
Vipaka	Katu
Doshakarma	Kaphapittahara

Reference	Rasa	Guna	Veerya	Vipaka	Doshakarma
Charaka Samhita ^[49]	Madhura Kashaya	Ruksha, Laghu	Sheeta		Kaphahara
Sushruta Samhita [50]	Kashaya Madhura		Sheeta	Katu	Kaphapittahara
Ashtanga Hrudaya ^[51]	Madhura	Ruksha, Guru, Sara	Sheeta		Vatakrut
					Pittakaphahara
Bhava Prakasha ^[52]	Kashaya Madhura	Mrudu, Ruksha, Guru	Sheeta	Katu	Kaphapittahara
Raja Nighantu ^[53]	Madhura Kashaya	Ruksha, Laghu, Mrudu	Sheeta	Katu	KaphaVatahara
Kaiyadeva nighantu ^[54]	Madhura	Laghu, Mrudu	Sheeta		
Madanapala nighantu [55]	Kashaya, Madhura		Sheeta		Kaphapittahara
Dhanvantari Nighantu [56]	Madhura	Ruksha, Guru, Sara	Sheeta		
Ayurvediya oushadhi					Vatakrut
nighantu ^[57]					Pittakaphahara
Dravyaguna samgraha [58]	Madhura Kashaya		Sheeta	Katu	Kaphapittahara
Rajavallabha nighantu [59]	Kashaya Madhura	Guru Ruksha	Sheeta		Vataraktahara
Shodhala Nighantu [60]	Kashaya Madhura		Sheeta	Katu	Kaphapittahara

सक्तुगुण - सतवो यवजा रूक्षा मधुरा वहिनदीपनाः ॥ १८८ ॥

लघवो बृहणा वृष्या लेखना विड्बलावहाः । कफपितश्रमनुत्तट्वणनेत्रामयापहाः १८९ ॥ तर्पणा भेदना हया पानात् सद्योबलप्रदाः । प्रशस्ताः घर्मवाताध्वव्यायामश्रान्तदेहिषु ॥१९०॥ (कै.नि.कृतान्नवर्ग/१८८-१९०)

Yava Saktu^[62]

- Yava saktu helps alleviate Kapha and Pitta doshas.
- Reduces fatigue, hunger, and thirst, and supports wound healing and eye health.

It is especially beneficial for diabetics who are physically active and require sustained energy."

CONCLUSION

The combination of *Shunthi bilva Kwath* with *Yava Saktu* is a very useful and practical remedy for managing *Garbhini Chhardi* (vomiting during pregnancy). *Shunthi* and *Bilva* helps calm the increased *Vata*, improves digestion, and reduces nausea because of its *Vata*-balancing and digestive properties. *Yava Saktu*, which reduces thirst and excess *Kapha*, keeps the body hydrated and helps control the causes of vomiting and nausea. This combination not only gives quick relief from vomiting and nausea but also

supports the overall health of both the mother and the baby by maintaining hydration and balancing the *Doshas*. Overall, this Ayurvedic method provides a gentle, natural, and effective way to manage *Garbhini Chhardi* and is simple to include in daily life during pregnancy.

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