



A REVIEW ON GARBHA-STHAPAKA DRAVYAS: AYURVEDIC PERSPECTIVE OF ANTENATAL CARE

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ABSTRACT

Pregnancy is a unique physiological state that requires a delicate balance of maternal and fetal health. The foundation of a healthy pregnancy lies in the proper conception and sustenance of the fetus. Ayurveda emphasizes the importance of maintaining pregnancy (garbhasthapan) and promoting the nourishment of both mother and fetus through holistic approach including diet, lifestyle and herbal formulations. Garbhasthapak dravyas are the herbs used to maintain and stabilize the pregnancy, preventing complications like miscarriage (garbhastrava) and ensuring a healthy fetal environment. These herbs are known for their garbha-sthapana (pregnancy-sustaining) and rasayana (rejuvenating) properties, contributing to fetal growth, maternal strength, and prevention of complications. These drugs are elaborated in classical ayurvedic text and mentioned as part of garbhini paricharya (antenatal care). This review aims to compile and analyse the classical references regarding Garbha-sthapaka dravyas highlighting their significance in antenatal care.

KEYWORDS - Garbhasthapa, Garbha, Garbhastrava, Antenatal care

INTRODUCTION

Ayurveda, the ancient Indian science of life and health, is well known for its ability to both prevent and cure diseases. In Ayurveda, a woman is regarded as source of creation. Because of her vital role, taking care of a woman's health is considered very important. In today's time, many women face difficulties in conceiving due to changes in lifestyle. Even after conception, an unhealthy diet or improper lifestyle can cause bleeding during the second or third month, leading to instability of the fetus and sometimes miscarriage. In Ayurveda, Garbha means fetus or the developing embryo, Sthapak means stabilizer or one who maintains. Hence, garbhasthapak dravyas are the medicinal substances (herbs) that help to maintain and protect the fetus in uterus there by preventing miscarriage. In Brihatrayi, the concept of Garbha Sharira (embryology) is explained in the Sharira Sthana. According to Acharya Charaka, Garbha (embryo) is formed by the combination of three main factors — Shukra (sperm), Shonita (ovum), and Jeeva (life element). A healthy Kshetra (uterus) is also essential for the implantation, growth, and proper development of the embryo. Ancient Ayurvedic scholars believed that through certain rituals and the use of specific herbs, it is possible to support the conception and development of a healthy baby. The group of herbs known as Garbhasthapan Gana / Prajasthapan dravya plays a key role in this. These herbs help in maintaining pregnancy and protecting the fetus. Acharyas like Charaka and Kashyapa have recommended some of these herbs for use during pregnancy. Later, Chakrapani clarified that Garbhasthapan herbs protect the fetus from harmful factors, support its normal growth, and help prevent miscarriage. We aim to study these Garbhasthapan Gana herbs to know their benefits in pregnancy care. In Ayurveda, Dravya (medicine) is considered one of the essential parts of the treatment being one of the four main factors of Chikitsa Chatuspada. In the present study, Dravyas with Garbhasthapa Karma are explained

based on their Rasa (taste), Guna (properties), Virya (potency), Vipaka (post-digestive effect), Prabhava (specific action), Doshakarma (effect on Doshas). Today, infertility and abortion rates are rising, so prevention has become very important, an area where Ayurveda offers great potential. This study highlight the wisdom of Ayurveda regarding Garbhasthapak Dravya focusing on their pharmacological basis, specific mechanism of action on dosha dhatu & potential for their integration into modern complementary Antenatal care.

Aim - To study and review Garbhasthapa dravyas according to various Ayurvedic classic text.

Objectives

To review the classical ayurvedic references describing Garbhasthapa dravyas.
To analyse the pharmacological properties of these drugs.
To evaluate the mechanism of action of garbhasthapak dravyas.
To assess therapeutic potential of the drugs in preventing garbhastrav.

Material - The literature review with reference to Garbhasthapa dravyas is made from various Ayurvedic classic text & detailed study of herbs is done from Dravyaguna vidyana and Nighantus.

● According to Acharya Charaka¹

In Charaka samhita sutrasthana 4th chapter, Charaka has enlisted almost 500 kashayas along with their actions. Among these, Charaka mentioned Prajasthapanani Kashaya Gana which includes 10 drugs. These have some specific actions called 'Prabhava'. In Charaka Samhita Sharira Sthana 8th chapter, same drugs are mentioned as Garbhasthapanani drugs.



ऐन्द्री ब्राम्ही शतवीर्या सहस्रवीर्याऽमोघाऽव्यथाशिवाऽरिष्टा

वाट्यपुष्पी विष्वसेन कान्ता इति दशेमानी प्रजास्थापनानि भवन्ति ।। (च.सु. ४-४९)

Dravya^{2,3/} Gana	Latin name/ family	Rasa	Guna	Virya	Vipak	Doshghnta	Prayojya ang	Action On dhatu	Chemical content
1.Aindri (Balya, Praja- Sthapan)	<i>Bacopa monnieri/ Scrophularia-cae</i>	Kashay tikta	laghu	shita	madhur	Vata- pittahara	panchang	Rasayan Medhya Svarya, Smriti-prada	Bramhin, Harpestin, Betulic- Stigmaste-rol
2.Brahmi (tikta- Skanda, Praja- Sthapan, Vaya- Sthapan)	<i>Centella asiatica/ umbelliferae</i>	Kashay tikta	laghu	shita	madhur	Vata- pittahara	panchang	Dipan, Medhya, Hridya	Hydrocoty-Line Alcaloids Asicatico-Side Bramhino-Side Bramhinic acid
3-4. Durva Dwaya (Praja- Sthapan, Varnya)	<i>Cynodon dactylon Graminae</i>	Tikta Kashay madhnur	laghu	shita	madhur	Kapha pittahara	panchang	Prajan- ankar, tripati-kar, trushna-har, Garbha- stravhar	Protein 10.47% Carbohy-drate 36.16%
5. Amalaki (vaya- Sthapan, Virecha- Nopaga, Praja-Sthapan)	<i>Embilika- Officinalis Euphorbiaceae</i>	Amla- Pradhan Lavan- Varjit panchras	Guru Ruksha shita	shita	madhur	Tridosh-har	fruit	Vrishya Rasayan Chaksh-ushya sarva-dosha har	Gallic Acid, Tannic Acid, Albumin Cellulose Calcium Vit c
6. Guduchi (vaya-Sthapan Stanya- Shodhan, Dahapra shaman trushna nigrahan Trupti-Janak)	<i>Tinospra Cordifolia Menispermaceae</i>	Tikta Katu kashay	Guru Snigd-ha	ushna	madhur	Tridosh-har	stem	Rasayan Balya Dipan Vrishya Sangra-han	Berberin Giloin Oil starch
7. Haritaki Praja-Sthapan Jwarghna Kushta-Ghna Kasghna Arsho-ghna	<i>Terminalia Chebula combretaceae</i>	Kashay Pradhan Lavan- Varjit Panch rasa	Laghu ruksh	ushna	madhur	Tridosh-har	fruit	Rasayan, Medhya, Dipan Anuloman Vaya-Sthapan Vrishya anuloman	Tannin, Cheblic acid 18 amino acids
8. Katu- Rohini (bhedni-Ya, Lekhniya Stanya-Shodhan Katu- Skandha)	<i>Picrorrhiza-Kurroa Scrophulariaceae</i>	Katu tikta	Ruksha laghu	shita	katu	Kapha-pittahar		Bhedan Dipan hridya	



9. Bala (balya, Brihniya Praja-Sthapan Madhur-skanda)	Sida Cordifolia Malvaceae	madhur	snigdha	shita	madhur	Vata-pitta	panchang	Balya Vrishya Rasayan Sangrahi	Ephidrin Mucin Potassium nitrate
10. Priyangu Praja-sthapan	Callicarpa Macrophylla verbenaceae	Tikta Kashay madhur	Guru ruksh	shita	katu	Kapha-pitahar	Mula Tvak Pushpa phala	Mutra- Virajniya Purish- sangrahi	Calliterpen-One, Lidenocalli- Teprenone, Calliterpen-None mono acetate
11. Kadali	Musa Paradisical Musaceae	madhur	Guru snigdha	shita	madhur	Pitta-Kapha- vatahar		Vrishya Balya Rakta- Stambhan Vishtam-bhi	

According to Acharya Charaka, the term “Avyatha” can refer to any one of the three drugs — Kadali, Guduchi, or Amalaki. Therefore, all three have been included in this study.

These herbs can be used in different ways:

Since they are listed under the group of *Mahakashayas*, they are mainly used in the form of decoctions (herbal water extracts).

- Amulets made from these herbs can be tied on the head, right arm, or wrist.
- Milk or ghee prepared with these ten herbs can be taken internally by drinking.
- Processed water or cold decoction can be used for bathing during Pushya Nakshatra.
- Above mentioned drugs should be kept in close contact with the pregnant lady.

• According to Ashtanga Hridaya⁴

Acharya Vagbhata II also recommended the use of the same *Prajasthapaka* herbs in the *Sutrasthana* section.

• According to Ashtanga Sangraha⁵

Acharya Vagbhata I mentioned the use of the same *Prajasthapaka* herbs in the *Sutrasthana* section, following *Pumsavana Karma*. As per Indu's commentary, these herbs help in preventing miscarriage.

• According to Kashyapa⁶

Kashyapa advised that pregnant women should regularly use *Prajasthapaka* herbs, as they help maintain the health, growth, and development of both the mother and the fetus.

He also mentioned that these herbs should be carefully used following the *Prajapathya Vidhi* method, and then tied as an amulet on the arm of the expecting mother during the *Pushya Nakshatra*.

बहुपुत्रामनन्तां च ईश्वरी मुदितां तथा । ब्राम्ही च सहदेवा च
तथा चैवेन्द्रवारुणीम् । जीवकर्षभको भार्गी समङ्गा च तथैव
च । रोहपादान वटशुङ्गा नाल गुप्ता तथैव च ।
अरिष्ट पूतनां केशी शतवीर्या च पार्थिव । सहस्त्रवीर्या चैतानि
प्राजापत्येन संहरेत् ।
संदधेद च पुष्पेण धारयेदुत्तरेषु च ॥ (का.स.खि. १०/
१७७-१८०)

Dravya	Rasa	Guna	Virya	Vipak	Dhoshghnta	Action on dhatus	Karma
Bahupatra (Bhumyamlaki) Phyllanthus niruri	Tikta Katu Amla madhur	Laghu ruksha	shita	madhur	Kapha pittahar	Raktashodhak	Dipan, pachan, Shothahar, balya Vranaropan, Anuloman, kushtaghna
Ananta (sariva) Hemidesmus indicus	Madhur tikta	Guru snigdha	shita	madhur	Tridosha-har	raktashodhak	Dipan, pachan, Anuloman, Dahprashaman Shothahar Garbhashthapan rasayan
Ishwari Aristolochia indica	Tikta Katu kashay	Laghu ruksha	ushna	katu	Kapha-vatahar	raktashodhak	Vishaghna, Vranashodhan, Shothahar, dipan Garbhashay- Sankoch, mutrala, shoolaprashaman
Mudita (shivlingi) Bryonia laciniosa	Katu tikta	Laghu ruksha	ushna	katu	Kaphahar pittakar	Shukra-vardhak	Rasayan, Uterine tonic Spermatogenic Sidhmakushtha-har



<i>Sahadevi</i> <i>Veronia cinerea</i>	<i>tikta</i>	<i>Laghu</i> <i>ruksha</i>	<i>ushna</i>	<i>katu</i>	<i>Kapha-vatahar</i>	<i>raktashodhak</i>	<i>Shothahar,</i> <i>Vedanasthapan</i> <i>Jwaraghana Krimighna</i> <i>Kushthaghna swedajanan</i>
<i>Indravaruni</i> <i>Citrullus</i> <i>colocynthis</i>	<i>Tikta katu</i>	<i>Laghu sara</i>	<i>ushna</i>	<i>katu</i>	<i>Kapha-pittahar</i>		<i>Gabhashay-</i> <i>Sankochak, rechan, Gulma</i> <i>pliharoga Prameha</i> <i>kamala Udar</i> <i>shwasroghar</i>
<i>Jivaka</i> <i>Microstylis</i> <i>wallichii</i>	<i>madhur</i>	<i>Picchil</i> <i>snigdha</i>	<i>shita</i>	<i>madhur</i>	<i>Vata-</i> <i>pittahar</i>	<i>Raktavikarhar</i> <i>shukravardhak</i>	<i>Rasayan, Vajikaran</i> <i>Vandhyatva, shwas,</i> <i>Daha, kas, karshya,</i> <i>shosha</i>
<i>Rishabhak</i> <i>Microsytis</i> <i>muscifera</i>	<i>madhur</i>	<i>Picchil</i> <i>snigdha</i>	<i>shita</i>	<i>madhur</i>	<i>Vata-</i> <i>pittahar</i>	<i>shukraprada</i>	<i>Daha, jwara,</i> <i>Raktapitta, vandhyatva</i> <i>virekanut</i>
<i>Bharangi</i> <i>Clerodendrum</i> <i>serratum</i>	<i>Tikta</i> <i>kashay</i>	<i>Laghu</i> <i>ruksha</i>	<i>ushna</i>	<i>katu</i>	<i>Kapha-vatahar</i>	<i>raktashodhak</i>	<i>Shothahar, amapachan</i> <i>Vranapachak,</i> <i>Swedajanan</i> <i>kasashwashar</i>
<i>Samanga</i> <i>Biphytum-</i> <i>sensitivum</i>	<i>Madhur</i> <i>Tikta</i> <i>kashay</i>	<i>ruksha</i>	<i>shita</i>	<i>katu</i>	<i>Kaphapittahar</i>	<i>Rakta-</i> <i>sthambhak</i>	<i>Grahi, sandhaniya</i> <i>Yonidoshahar, shwas,</i> <i>Atisara, daha, kushtha,</i> <i>Vrana, jwara,</i> <i>raktapitta</i>
<i>Rohapadan</i> <i>Vatashunga</i> <i>leaf bud of Ficus</i> <i>bengalensis</i>	<i>kashay</i>	<i>Guru</i> <i>ruksha</i>	<i>shita</i>	<i>katu</i>	<i>Kapha-pittahar</i>	<i>Raktashodhak</i> <i>Shukra-</i> <i>sthambhan</i>	<i>Vedanasthapan,</i> <i>Vranaropan, Garbhashay</i> <i>shothhar chakshushya</i>
<i>Atmagupta /</i> <i>Kapikacchu</i> <i>Mucuna – pruriens</i>	<i>Madhur</i> <i>tikta</i>	<i>Guru</i> <i>snigha</i>	<i>ushna</i>	<i>madhur</i>	<i>Vatahar</i> <i>Kaphapitta-kar</i>	<i>aartavjanan</i>	<i>Yonisankochak, Balya,</i> <i>brimhan, vrushya</i>
<i>Keshi</i> <i>(jatamansi)</i> <i>Nardostachys</i> <i>jatamansi</i>	<i>Tikta</i> <i>Kashay</i> <i>madhur</i>	<i>Laghu</i> <i>snigdha</i>	<i>shita</i>	<i>katu</i>	<i>tridosahar</i>	<i>aartavjanan</i>	<i>Dahaprashaman,</i> <i>Varnya, balya,</i> <i>Medhya, dipan, pachan</i> <i>Sandnyasthapan,</i> <i>Vajikaran, keshya</i>

Need of fetal protection (Garbharaksha) -

Our Acharyas have explained that *Prajasthapana* drugs help remove all the problems in a pregnant woman's body that can interfere with conception, cause fetal abnormalities, or lead to abortion. Among these, *Garbhasrava* or *Garbhapata* (abortion or miscarriage) is considered the most serious condition.

Causes of Miscarriage/Abortion (Ayurvedic Perspective - Garbhasrava):

1. Vitiating of *Vata Dosha*: Increased *Vata Dosha* causes uterine contractions, leading to the expulsion of the fetus.
2. *Dauhrida Avamana*: Neglecting the specific cravings and desires (*Dauhrida*) of the pregnant woman, which directly impacts fetal health.

3. *Durbala Garbhashaya* (Weak Uterus): Lack of strength or proper nourishment of the uterine tissue.
4. *Mithya Ahara-Vihara*: Following an improper diet and lifestyle during pregnancy.

Objectives of Garbhashthapak Dravyas⁷:

1. Pacification of *Vata Dosha* (*Vata Shaman*).
2. Strengthening the Uterus (*Garbhashaya Balya*).
3. Nourishment of both the mother and the fetus (*Brumhana/ poshan*)

From the detailed review of the *Prajasthapana Gana* drugs, it is clear that their actions work through multiple properties — *Rasa, Guna, Virya, Vipaka, and Prabhava*.



Specific action of *Garbhasthapak dravyas*

1. *Garbhasthapan* (fetal stabilizing) action- This is the primary function, the herbs are believed to strengthen the uterine muscles and tissues, making the uterus a better field 'kshetra' and enhance the endometrial receptivity, which is crucial for proper implantation and retention of fetus.
2. *Madhur rasa* - Majority dravyas having *madhura rasa*. *Madhura rasa* contains *prithvi* and *aap mahabhuta*. *Prithvi mahabhuta* is having *guru* and *sthira* property which gives strength to the organs of mother hence gives stability to the fetus.
3. *Shita virya* (cold potency) – Vitiating of *pitta dosha* attribute to condition like spontaneous abortion. Many *garbhasthapan dravyas* having *kashay*, *tikta rasa* and *shita virya*. The astringent and cold properties help in *Rakta stambhan* (stop bleeding), which is crucial in preventing abortion associated with internal hemorrhage. They reduce the risk of bleeding.
4. *Vata dosha shaman* - *Vata Dosha* is the main factor which is responsible for the organogenesis. If the *Vata Dosha* is not in its normal state, the anomaly can be developed in fetus. Imbalance of *vata* can cause uterine instability. *Vata* pacification reduces uterine contractions, stabilizing the fetus.
5. *Brimhan and Balya* - Tissue Building and Tonic Properties. These herbs nourish the bodily tissues (*Dhatus*), especially *Rasa* (plasma), *Rakta* (blood), and *Shukra/Ojas* (vital essence). They provide strength to the uterine and placental tissues, supporting the growing fetus.
6. Hormonal Balance (Correlation with Modern View): Compounds in herbs like *Shatavari* are known to contain Phytoestrogens (like saponins) which may help support the function of Progesterone, thereby aiding in the maintenance of pregnancy.
7. Drugs having *Rasayan* (rejuvenating) properties enhance the mother's overall strength and *ojas* (the essence of immunity and vitality) enabling her to better withstand the physical and emotional demands of pregnancy, also provide strength to uterine tissue to ensure stability.
8. These drugs can help in clearing the bodily channels (*stroto-shodhan*) to ensure efficient delivery of nutrients to the placenta and the fetus, and proper removal of waste products.
9. Certain *garbhasthapaka dravyas* also have a calming and soothing effect (*garbhaprasadak*) which reduces maternal anxiety, stress and fatigue creating a peaceful environment for fetal development.
10. *Prabhava* (specific, unexplainable action) – In ayurveda, an action that can not be logically explained by *rasa*, *guna*, *virya*, *vipaka* of a substance is attributed to its *prabhava*. The ultimate *Garbhasthapan* action – the ability to specifically hold and maintain the fetus – is considered *Prabhava* of these specific herbs.

Result

Sr No.	Conditions creating obstacles For <i>prajasthapan</i> in female	Probably fruitful action	Application of contrast Action of dravyas	Dravyas that can be used
1.	Organ abnormalities (uterus, cervix) (<i>garbhashay dourbalya</i>)	<i>Mamsa dhatu</i> Correction (increasing muscle Strength)	<i>Mamsa & meda shaithilya</i> <i>Nashan</i> , <i>mamsa prasadan</i> , <i>Mamsa Vardhan</i> , <i>Mamsa dhatvagni vardhan</i>	<i>Guduchi</i> , <i>Durva</i> , <i>Vatyapushpi</i> , <i>Haritaki</i>
2.	Expulsion of premature Fetus : (Bleeding tendency)	Controlling and Correcting the causes Of bleeding tendency In female	<i>Shonitadi pravritti nashan</i> <i>Rakta skandan</i> , <i>Rakta stambhan</i> , <i>Rakta gata pitta vata shaman</i>	<i>Vatyapushpi atibala</i> <i>Priyangu</i> , <i>durva Kadali</i> , <i>guduchi</i>
3.	Fetal organ malformation (<i>Garbha avayava Vikriti</i>)	Correcting circulation Problems (<i>rasrakta samvahan</i>) Correcting <i>rakta</i> – <i>vikriti</i> as <i>rakta</i> has role in fetal organ development	<i>Rakta dhatvagni Vardhan</i> , <i>Rakta gata ama pachan</i> , <i>Rakta gata tridosha shaman</i> , <i>Jivan</i> , <i>prasadan</i>	<i>Durva</i> , <i>guduchi</i> , <i>Kutaki</i> , <i>haritaki</i>
4.	Deep rooted disease pathology In mother	Correcting circulation Problems (<i>rasrakta samvahan</i>) & Giving disease treatment	<i>Dravyas</i> with specific <i>Rogaghata</i> in <i>prajasthapan</i>	Ex. <i>Prameha</i> - <i>bramhi</i> , <i>kutaki</i> <i>Raktapitta</i> - <i>durva</i> , <i>patala</i> <i>Kushtha</i> - <i>guduchi</i> , <i>bramhi</i>

DISCUSSION

From the properties of *Prajasthapan* drugs described by *Acharya Charaka* and *Acharya Kashyapa*, it can be understood that these medicines help remove obstacles in conception and support a healthy pregnancy. Proper *Prajasthapan* occurs only when all *Garbhasambhava Samagris* are balanced and healthy. These *dravyas* are not just medicines; they are part of a

complete fetal protective therapy that ensures the holistic health of both the mother and fetus. Their use is an essential component of Ayurvedic Antenatal Care (*Prasavapurva Paricharya*).

- Weakness of the uterus or reproductive organs may affect conception. Since the uterus is a visceral organ made of smooth muscles, nourishment of *Mamsa Dhatu* helps strengthen it. Drugs like **Guduchi**, **Durva**, **Vatyapushpa**, and **Haritaki** are useful for this purpose.



- Sometimes the embryo gets expelled outside before it gets viable, Spontaneous and threatened abortions are common due to vitiation of *vata*, *Rakta*, and *Pitta*. Drugs such as **Priyangu**, **Durva**, **Guduchi**, **Kadali**, and **Kutaki** purify *Rakta* and help control bleeding, thus preventing miscarriage.
- Many *Prajasthapana* drugs also act on other systems of the body by treating diseases like *Prameha*, *Jwara*, and liver disorders, which indirectly support pregnancy.
- *Avayava Utapatti* is also concerned with the *Dhatu*. If the *Rasa Dhatu* is proper, the *Uttarottara Dhatu* will be proper according to *Dhatuposhana Nyaya*. Use of *garbhashthapan dravyas* help in *dhatuposhan*.

Hence, the *Garbhashthapan Gana* drugs mentioned by our *Acharyas* are beneficial in conception, maintaining pregnancy, and preventing complications.

CONCLUSION

The comprehensive analysis of *Garbhashthapak Dravyas* (fetal-stabilizing herbs) shows their significance within the specialized field of Ayurvedic obstetrics, particularly in *Garbhini Paricharya* (antenatal care). The review of *Garbhashthāpana Dravyas* highlights their significant potential in supporting early pregnancy through mechanisms aligned with both classical Ayurvedic principles and emerging scientific understanding. These drugs, described primarily in the *Garbhashthāpana* and *Prajasthāpana Ganas*, exhibit properties such as *Garbhashthirakarana*, *Dhātu-poshana*, *Balya*, and *Rasāyana*, which collectively contribute to embryo stabilization and uterine receptivity. They function by promoting a conducive environment for implantation, nourishing the developing fetus, and enhancing maternal physiological resilience, thereby acting as a powerful preventive measure against threatened and recurrent pregnancy loss. However, the

current body of evidence remains limited, emphasizing the need for well-designed pharmacological, clinical, and translational studies to validate their efficacy and safety. Identification of the specific Phytochemicals that interact with uterine receptors and pregnancy hormones is also needed. We urge for continued Future investigations focusing on standardization, mechanism-of-action profiling, and clinical outcome assessment which can help to bridge traditional knowledge with modern obstetric science, ultimately contributing to evidence-based Ayurvedic interventions in early pregnancy care and their benefits into reproductive health protocols, ensuring the safe and successful passage of life from conception to birth.

REFERENCES

1. Vaidya Yadaoji Trikamji Acharya ed, *Charak Samhita, Sutrasthana*, Chaukhamba Prakashan Varanasi, edition reprint, 2009; Chapter 4, Page No.135, Sloka 22.
2. P.V. Sharma, *Dravyaguna vijñana, Part second*, Edition Reprint – 2003, Chaukhamba Bharti Academy, Varanasi.
3. K.C Chunekar, *Bhavapraksha Nighantu of Bhava Misra*, Edition reprint- 2009, Chaukhambha Bharti Academy.
4. Pt. Hari Sadashiva Shastri Paradkar [Ed], *Ashtanghridaya, Sutrasthana*, Chaukhamba Sanskrit Prakashan, Edition reprint, 2012; Chapter 9, Page No.166, Sloka 5-10.
5. Prof .Jyotir Mitra, Edited by Dr. Shivprasad Sharma, *Ashtang Sangraha ,Sutrasthana*, Chaukhamba Sanskrit series office Varanasi, 3rd Edition reprint, 2012; Chapter 6, Page No.42-43, Sloka 49-64.
6. *Vridha jeevaka, Kashyapa samhita*, Raised by Vatsya, with Sanskrit introduction by Nepal Rajguru Pandit Hemaraj Sharma, With the Vidyotini Hindi commentary and Hinditranslation of Sanskrit introduction by Ayurvedalankar Shri Satyapala Bhishagacharya, 8th edition, 2002, Chaukhamba orientalia, Varanasi, Pp:364:174
7. *Ayurvedic Prasuti - Tantra Evam Stiroga* ; 2nd edition .Dr. Premvati Tivari, 1999, Chaukhamba Orientalis