Udumbara (*Ficus racemosa* Willd.): A challenging drug in the management of Heavy Menstrual Bleeding

Megha Gupta * and Anuradha Roy

*Department of Prasuti Tantra, Institute of Medical Sciences, Banaras Hindu University, Varanasi, Uttar Pradesh, India.*

World Journal of Advanced Research and Reviews, 2023, 20(01), 121–126

Publication history: Received on 14 August 2023; revised on 24 September 2023; accepted on 27 September 2023

Article DOI: [https://doi.org/10.30574/wjarr.2023.20.1.1934](https://doi.org/10.30574/wjarr.2023.20.1.1934)

**Abstract**

Women of reproductive age frequently have heavy menstrual bleeding (HMB), a common gynecological disease. It is characterized by excessive or prolonged menstrual bleeding that can interfere with a woman’s daily activities and physical, emotional, social, and psychological quality of life. It is defined as cyclic bleeding at normal intervals, the bleeding is either excessive in amount (>80 ml) or duration (>7 days), or both. In India, the reported prevalence of AUB is around 17.9%. HMB can have various impacts on a woman’s health. In Ayurveda, it can be explained in terms of asrigdara. In traditional drug practices, distinct parts (leaves, stem, root, fruit, seeds, latex, or even entire plant) of *Ficus racemosa* Willd. are used to manage HMB. Its Sanskrit name is Udumbara. *Ficus racemosa* Willd. has confirmed various pharmacological actions like hypoglycemic, hypolipidemic, anti-carcinogenic, antidiuretic, hepatoprotective, anti-ulcer, and antifungal. β-sitosterol and glauanol acetate are the phytoconstituent found. In the present review management of HMB with Udumbara as ekal dravya (single drug) with the expected mode of action has been explained. Most of the drug reviews have not explained the mode of action for managing HMB. Understanding the mode of action of Udumbara at different stages of shadkriyakala (stages of disease manifestation and management) of asrigdara will help better administration of the herb and also prevent complications.

**Keywords:** Ayurveda; Asrigdara; Udumbara; Shadkriyakala

1. **Introduction**

HMB is a common gynecological condition that affects many women. It can have various impacts on a woman’s health. Anemia: Prolonged and HMB can lead to a significant loss of blood, which may result in anemia. Physical discomfort: HMB can cause pelvic pain and cramping, leading to discomfort during the periods. This can reduce the overall quality of life and interfere with daily activities. Emotional and psychological discomfort: HMB can be emotionally distressing for some women. The constant worry associated with managing heavy flow can lead to increased stress and anxiety. Disturbance of daily activity: It can force women to limit or avoid certain activities during their menstruation, affecting work, social life, and exercise routines. Interference with intimacy: Women may feel discomfort or embarrassment during sexual activities due to the heavy flow. Impact on sleep: It can disturb sleep patterns, leading to reduced energy levels. Social isolation: Fear of leaks and the need to manage bleeding can cause social withdrawal, leading to feelings of isolation. Reduced fertility: It may sometimes be associated with underlying reproductive issues that can affect fertility.
2. Scientific uses

- **Antioxidant activity** - *Ficus racemosa* contains phenolic compounds and flavonoids that exhibit strong antioxidant properties. These compounds help neutralize free radicals in the body, protecting cells from oxidative stress and reducing the risk of various chronic diseases.
- **Anti-inflammatory effects** - The plant’s extracts have demonstrated anti-inflammatory properties, which can help reduce inflammation in the body and provide relief from inflammatory conditions.
- **Antimicrobial activity** - *Ficus racemosa* extracts have been found to possess antimicrobial properties, which may help inhibit the growth of various bacteria, fungi, and other microorganisms.
- **Hepatoprotective activity** - The plant has been traditionally used for liver disorders, and research suggests that its extracts may have hepatoprotective properties, protecting the liver from damage and promoting its healthy functioning.
- **Antiulcer activity** - The plant’s extracts have been investigated for their antiulcer potential, which may be helpful in reducing gastric ulcer formation.

2.1. Udumbara

- **Botanical name** - *Ficus racemosa* Willd.
- **Family** - Moraceae
- **English name** - Cluster fig
- **Used part** - Fruit, bark, latex

2.2. Properties

- **Rasa (taste)** - Kashaya (astringent)
- **Guna (qualities)** - Guru (heaviness), Ruksha (dryness)
- **Vipaka** - Katu (pungent)
- **Veerya** - Sheeta (coolant)
- **Karma** - Pitta Kaphahara

![Figure 1 Fruit of Udumbara](image)

3. Asrigdara or Pradara

रजः प्रदीर्यते प्रदरस्तेन स स्मृतः। (च० सं ० चि ३०/२०९)

Due to pradirana (excessive excretion) of raja (menstrual blood), it is named as pradara and since, there is dirana (excessive excretion) of asrk (menstrual blood) hence, it is known as asrigdara.

3.1. General etiology and pathogenesis

 यात्स्यं संबं नारी लवणालिगुरूणं च। कटून्यं विदाहीनि स्थितानि पिषिततानि च ॥२०५॥
Woman who consumes excessive salty, sour, heavy, katu (hot), vidahi (producing burning sensation) and unctuous substances, meat of domestic, aquatic and fatty animals, krsara (olio made with rice and pulses), payasa (rice cooked with milk and sweetened), payasa (rice cooked with milk and sweetened) curd, sukta (vinegar), mastu (curd water) and wine, her aggravated vayu, withholding the rakta (blood) vitiated due to above causes increases its amount and then reaching raja carrying vessels (branches of ovarian and uterine arteries) of the uterus, increases immediately the amount of raja (artava or menstrual blood), in other words the increase in amount of raja is due to its mixture with increased blood. This increase in menstrual blood is due to relative more increase of rasa (plasma contents). Because of increase in the amount of blood the expert of this treatise named it asrigdana.

<table>
<thead>
<tr>
<th>Rasa</th>
<th>Guna</th>
<th>Aahara</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lavana – Potato chips, salted ground nuts, Indian papad, pickles</td>
<td>Snigdha – bhajji/pakoda, dosa, fried rice, paratha, ice cream, milkshakes, biscuits, chocolates</td>
<td>Mamsa – cow, goat, sheep, pig, conch shell, oyster shell, crab, tortoise, fish</td>
</tr>
<tr>
<td>Amala – tamarind, lemon, curd, vinegar</td>
<td>Guru – cheese, payasa/kheer</td>
<td>Krishara – rice+pulse boiled together</td>
</tr>
<tr>
<td>Katu – ginger, garlic, onion, chili, pepper, hing, radish</td>
<td>Vidahi – katu rasa pradhana dravyas</td>
<td>Payasa – milk+rice+sugar boiled, lastly added sugar</td>
</tr>
</tbody>
</table>

Table 1 Asrigdara Nidan

- **Nidan seven**
  - Pitta Pradhan tridosh dushti
  - Vitiation of vata (Apana)
  - Rakta vridhi in garbhashaya
  - Raja vridhi
  - Rakta saha (Excessive prolonged bleeding)

**Figure 2 Samprapti of Asrigdara**

### 3.2. Rasa Panchak of Udumbara

उदुम्बरो हिमी रूढः: कषायो मधुरू गुरुः: (भाप्र.प्र.नि/९)

**Kashaya rasa**

कषायो रसः संशमनः सहित्राही सम्भानकः: पीड़नो रोपणः शोषणः सम्भनः: श्वेतायर्स्यमितिप्रशमनः: शारीरकल्याणौपपूक्ता रूढः: शीतोऽलघुश्च (Ca.Su 26/43)
Drugs possessing Kashaya rasa (astringent in taste) acts as mentioned under:

- Samsamana (palliative), sangrahī (constipative) and sandhanakara (promotes union).
- Pidan (produces pressure on the affected part)
- Ropana (causes healing), soshana (absorbing or drying) and stambhana (arresting).
- Alleviates slesma, rakta and pitta.
- Sarira kledasya upayokta (absorbs the body fluid)
- Possesses the attributes like ruksa (dry), sheeta (cold) and alghu (heavy).

![Figure 3 Properties of Kashaya rasa](image)

**3.3. Samprapthi vighatana**

**Table No. 2 Different stages of Shadakriyakala**

<table>
<thead>
<tr>
<th>Sanchaya (stage of a dosha increasing in its own location)</th>
<th>Prakopa (stage of a dosha reaching the threshold)</th>
<th>Prasara (stage of a dosha spreading beyond its own location) and sthansamshraya (stage of a dosha localizing outside its location)</th>
</tr>
</thead>
<tbody>
<tr>
<td>At the level of guna</td>
<td>At the level of dosha</td>
<td>At the level of dhatu</td>
</tr>
</tbody>
</table>

![Figure 4 Samprapti Vighatana at the level of different stages of Shadkriyakala](image)
Table 3 Samprapti Vighatana of Asrigadara by Udumbara

<table>
<thead>
<tr>
<th></th>
<th>Asrigadara</th>
<th>Udumbara</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>At the level of guna</strong></td>
<td>Ushna, Tikshna dravya</td>
<td>Sheeta, Kashaya, Madhura</td>
</tr>
<tr>
<td></td>
<td>Laghu, Chala</td>
<td>Guru, Manda</td>
</tr>
<tr>
<td><strong>At the level of dosha</strong></td>
<td>Vata shaman</td>
<td>Madhura rasa, Guru guna</td>
</tr>
<tr>
<td></td>
<td>Pitta shaman</td>
<td>Sheeta virya</td>
</tr>
<tr>
<td></td>
<td>Kapha shaman</td>
<td>Ruksha guna, Katu vipaka</td>
</tr>
<tr>
<td><strong>At the level of dhatu</strong></td>
<td>Rakta has ashraya ashrayi bhava with pitta dosha</td>
<td>As udumbara has kashaya rasa it is pitta shamaka</td>
</tr>
</tbody>
</table>

4. Discussion

Asrigadara is a disease manifesting as excessive bleeding per vaginum. The majority of the lakshanas of Asrigadara are due to aggravated vayu, withholding the rakta (blood) & pitta vitiated due to nidana sevana (ahara, vihara & manosambandhi nidana), increases its amount and then reaching raja carrying vessels (branches of ovarian and uterine arteries) of the uterus, increases immediately the amount of raja (artava or menstrual blood). Vitiation of tridosha leads to agnimandyata (depressed or weak state of digestive metabolic factors) which leads to vikrit ahara rasa nirmana and rasagni vaishamya & due to this vikrit rasa dhatu (primary circulating nutrient fluid) nirmana takes place. Artava being upadhatu (supportive structural component) of rasa is also vitiated and because of this vikrit artava pramana vridhdi occur which affect the garbhashayagata sira (uterine congestion/ increased uterine circulation) which leads to apana vayu (decending vata) dushti and atyadhik and chiarakala artavastrava (Asrigadara). The general principles of treatment of bleeding per vaginum as follows- dosha shodhana & rakta sthapana & sangrahana, use of tikta rasa and eradication of the cause. Udumbara have rakta-sthapana and rakta-sangrahana, kashaya, tikta and madhura shothara and grahi effect which helps to manage the condition of asrigadara (HMB).

5. Conclusion

Udumbara (*Ficus racemosa* Willd.) being kashaya, madhura rasa, sheeta veerya, katu vipaka and ruksha guna acts as pitta kapha shamaka (pitta-pacifying and kapha-pacifying) and is a drug of choice in this condition. Asrigadara manifests due to the increased ushna, tikshna, chala and drava guna. Udumbara has sheeta veerya, manda, guru and ruksha guna which are opposite to the qualities increased due to the etiological factors of asrigadara. Madhura rasa (sweet taste) can reduce the ushna (hotness) and tikshna guna. Asrigadara is a condition where the tridoshas get vitiated with predominance in pittadosha. Sheeta veerya, Kashaya madhura rasa and guru guna of Udumbara reduce the vitiated pitta. Vata dosha gets pacified due to Madhura rasa and guru guna. Kashaya rasa, katu vipaka and ruksha guna help in pacifying kapha dosha. Rakta is the major dhatu affected in the general condition of asrigadara. Pitta dosha has a close relation with Rakta dhatu. Hence vitiation of pitta ultimately causes vitiation of raktadhatu. Udumbarabara has kashaya, madhura rasa and sheeta veerya. Therefore, it pacifies pitta and purifies raktadhatu.

Compliance with ethical standards

Disclosure of conflict of interest

No conflict of interest to be disclosed.

References


Role of Udumbara (Ficus racemosa Linn) In The Management of Vidradhi – A Drug Review Dr.Nycy. B.S. Dr.Rajkumar Gupta, Dr. Bharat Rathi and Dr.Pramod Khobragade


Management of asrigdara with Kutajashataka avaleha and yashtimadhu ghrita matra basti – An open-label, double arm, randomized clinical trial Stuti Sharma, Meenakshi Pandey


Usha V.N.K Streerogavignana, Varanasi: chaukambasurabharatiprakashana, 20014; P.130, 131.


www.eASYayurveda.com » 2014/12/16 » udumbara-ficusFicus racemosa Uses, Research, Side Effects - Easy Ayurveda


MANAGEMENT OF ASRGDARA (MENORRHAGIA)- AYURVEDIC REVIEW Shashikumar B. Wankhede1 and Shruti S. Wankhade BAMS 2 (B.A.M.S. M.D.) Associate Professor, Strirog & Prasutitantra Department, Government Ayurved College, Nagpur. 2 (B.A.M.S.) General Physician and Strirog Chikitsak. wjpmr, 2023, 9(2), 146-149 SJIF Impact Factor: 5.922 Review Article ISSN 2455-3301 Wjpmr