pharmacontrol Ressured

WORLD JOURNAL OF PHARMACEUTICAL RESEARCH

SJIF Impact Factor 8.084

Volume 12, Issue 21, 279-283.

Review Article

ISSN 2277-7105

A REVIEW ON EFFICACY OF PRIYALA, BIBHITAKA AND TRIPUSA AS EKALA DRAVYA IN MANAGEMENT OF BHAGNA DUE TO ASTHIKSHAYA W.S.R TO SUSHRUTA SAMHITA

Dr. Pankaj Barapatre¹*, Dr. Ashwini Makadi², Dr. Manjeet Singh³ and Dr. Priti Desai⁴

¹Consultant, Department of *Shalya Tantra*, Sardar Patel Ayurvedic Medical College & Hospital, Balaghat.

²Assistant Professor, Department of *Dravyaguna*, Sardar Patel Ayurvedic Medical College & Hospital, Balaghat.

³Phd, Department of Biotechnology, Sardar Patel University, Balaghat.

⁴Head of Department, Department of *Rachana Sharir*, Sardar Patel Ayurvedic Medical

College & Hospital, Balaghat.

Article Received on 06 October 2023,

Revised on 26 October 2023, Accepted on 16 Nov. 2023

DOI: 10.20959/wjpr202321-30381



*Corresponding Author Dr. Pankaj Barapatre

Consultant, Department of Shalya Tantra, Sardar Patel Ayurvedic Medical College & Hospital, Balaghat.

ABSTRACT

Ayurveda is an ancient "Divine" science of life which deals with two aims: first is preventive one that is to safeguard the health of healthy person and second one is curative way that is to treat disease. In developing world, due to fast and stress full lifestyle, the incidence of accidental injuries is increasing. Sushruta under the heading "Bhagna" had mentioned detailed diagnosis and management for all orthopaedic injuries. Bhagna term of Ayurveda covers not only fracture but also a group of clinical entities of musculoskeletal system with traumatic causes. In Ayurveda, Athikshaya is mentioned as degenerative and geriatric disorder which can be corelated with Osteoporosis. Vitiated Vata dosha is mainly responsible for Asthidhatu Kshaya. This contributes as one of major reason for bhagna along with accidental injuries. In Bhagna-Chikitsa chapter, Sushruta had mentioned Tripusa, Aksha (Bibhitaka) and Priyala as Bhagna-sandhanaka. Among this

Tripusa and Priyala consists of madhura rasa-vipaka and sheeta virya while Bibhitaka is having katu-titka rasa, madhura vipaka and ushna virya. Thus, here an attempt is made to explain in detail the pharmacodynamic action of these three drugs as Ekala dravyas for management of Bhagna due to Asthikshaya based on rasapanchaka.

KEYWORDS: Bhagna, Fractures, Asthikshaya, Osteoporosis, Tripusa, Bibhitaka, Priyala.

INTRODUCTION

Ayurveda has explained human body as a homeostasis of dosha, dhatu, and mala. The function of dhatu is Dharana of sharir (maintaining the structure of body). Among the dhatu, asthi dhantu is responsible for maintenance of structural frame work of the body. It gives shape to the body and protects the vital organs. Ayurvedic texts has mentioned the siddantha of "ashray-ashrayi sambandha" of dhatu and dosha. [1] According to this siddantha Asthi dhatu is the ashray sthana of Vata dosha. Acharya Sushruta has explained Jara-awastha or Vrudhakala as a Swabhav-balapravruta vyadhi. In this phase of life Vata become dominating in all doshas. [2] This vitiated Vata leads to Sapta dhatu kshaya including Astidhatu Kshya. Astikshaya is explained in 18 types of Kshaya by Acharya Charaka. Asthikshaya can be corelate with osteoporosis. In the current era due improper diet and lack of physical activities there is increases risk of Asthikshaya which lead in bone fragility and fracture susceptibility. Also, due to fast and stress full lifestyle, the incidence of accidental injuries is increasing day by day. Thus, there is increase in the orthopaedic injuries.

Sushruta under the heading "Bhagna" had mentioned detailed diagnosis and management for all orthopaedic injuries. Bhagna term of Ayurveda covers not only fracture but also a group of clinical entities of musculoskeletal system with traumatic causes. there are two types of Bhagna on the basis of structure involved- Sandhimukta (joint dislocation) and Kandabhagna (bone fracture). Madhukoshvyakhya has explained two types of Bhagna based on clinical manifestations-

- 1) Savrana Bhagna- fractures with visible wound on skin
- 2) Avrana Bhagna- when bone is fractured but no visible wound is seen on skin. [5]

The treatment for *bhagna* is of two types: first is basic line of treatment which includes local application like *snehna*, *swedan*, *lepa*, *parisheka* etc and internal use of medication to stabilizes the *dosha* and *asthidhatu*. Specific treatment of *bhagna* is of various types dependent on the *sandhi* and *asthi* involved. Various herbal drugs which do *Vata dosha Shaman and Dhatu poshana* can be used as *ekaldravya* for the fractures occurring due to *Asthikhsaya* and also as preventive measure to reduce the *Asthidhatu Ksahya* in elderly persons. In *Bhagna-Chikitsa* chapter, *Sushruta* had mentioned *Tripusa*, *Aksha* (*Bibhitaka*) and *Priyala* as *Bhagna-sandhanaka*. [6] Among this *Tripusa* and *Priyala* consists of *madhura*

rasa-vipaka and sheeta virya while Bibhitaka is having katu-titka rasa, madhura vipaka and ushna virya.

AIMS AND OBJECTIVES

- To study the efficacy of *Tripusa*, *Bibhitaka and Priyala* in management of *Bhagna* due to *Asthikshaya*.
- To study the pharmacological actions of *Tripusa*, *Bibhitaka and Priyala*.

Table 1: LATIN NAME AND FAMILY.

Sr.No	NAME	LATIN NAME	FAMILY	REFERENCE	
1	TRIPUSA	Cucumis	Cucurbitaceae	Madhura varga	
		sativus Linn.	Cucuronaceae		
2	BIBHITAKA	Terminalia	Combretaceae	Virechanopaga jwarahara	
		bellirica Roxb.	Combletaceae		
3	PRIYALA	Buchananina	Anacardiaceae	Kashayaskanda Nyagrodhadi	
		latifolia syn.		varga	

Table 2: RASA-PANCHAK.[7]

NAME	RASA	VIRYA	VIPAKA	GUNA	DOSHAGHATA
TRIPUSA	Madhura	Sheeta	Madhura	Laghu, ruksha	Kapha-pitta hara
BIBHITAKA	Katu-tikta	Ushna	Madhura	Laghu, ruksha	Kapha-pitta hara
PRIYALA	Madhura	Sheeta	Madhura	Shingdha, guru & sara	Vata-pitta hara

MODE OF ACTION

1. TRIPUSA

It consists *Madhura rasa-vipaka* due to which it has property of *Vata* shaman and do the *bruhan*a karma and reduces *Asthi dhatu* ksahya. The fruit is said to be *vata*-nashaka according to Bhavprakasha. It has *Sothahara* property, which help to reduce swelling and associated pain in fracture (*bhagna*). The *Laghu and ruksha guna* help in *bhagna*-varna sodhan and *kleda* and *puyu(pus) soshana*. According to modern *tripusa* has rich amount of vitamin K which help in calcium absorption by bones thus reducing osteoporosis (*Asthikshaya*) and make bones strong and less prone to *bhagna*.^[8]

2. BIBHITAKA

Bibhitaka phala majja (fruit pulp) is vata dosha nashak thus reduce the Asthikshaya. It has Rasayana and Balya properties due to which it does the poshana and vardhana of dhatu along with asthidhatu and helps to reduce the Asthikshaya. Though, it consists of ushna virya it is sheeta in saprsa due to which it possesses the daha-nashak property due to which it is used for lepan. It has Vedanasthapana and Sothahara property due to which it is helpful to

reduce the pain and swelling in fracture. The fibres present in the fruit consist of oil which is said to be Keshya i.e it gives nourishment to hairs. *Kesha* is said to be *Mala to Asthidhatu* according to *Ayurveda*. Thus, it ultimately does proper *poshana and vardhana of asthidhatu* thus help in fracture healing.

3. PRIYALA

Its fruit pulp is said to be *vata dosha* nashaka. *Sushruta* has mentioned *Priyala in Nyagrodhadi varga*. The drugs of this *varga* consists of *varnya*, *sangrahi* and *bhagna*shandan properties. Thus, it is useful in management of *bhagna*. It is said to be *balya* and *bruhan*iya thus helps in nourishment *of Asthidhatu* and reduces the *Asthi dhatu kshaya*.

CONCLUSION

Asthikshaya is multifactorial disorder characterised by reduced bone mass and oestoporotic fractures. It needs a holistic approach for treatment of Asthikshaya and related bhagna. The drugs mentioned above works both on fracture healing and reducing kshaya of Asthi dhatu by its rasa and vipaka and balya bruhana karma along with varnya, Sothahara, dahashamak, vedanasthapaka properties. These drugs are easily available, simple for administration and can be used as ekala dravya also. Further clinical studies can be planned to established their role in the management of bhagna related to Asthikshaya-janya samprapti.

REFERENCES

- 1. Dr Ganesh Garde; *Dosha*dividnyaniyamadhay 11chapter verse 26,27 of Sutrasthana; SarthaVagbhata, edition Varanasi, Chaukhamba Surbharti Publication, 2016; 53
- 2. Ambikadutta Shastri, Vedotpattiadhaya chapter 1, verses 33 of Sutrasthana, Maharashi Sushruta, Sushruta Samhita, edition reprint, New Delhi, Chaukhamba Publication, 2020; 10.
- 3. Acharya Vidyadhar Shukla, Katidhapurushiya Adhaya Chapter 1, verses 115 of sharirsthana, edition reprinted, Chaukhamba Publication, 2018; 694.
- 4. Sushruta Samhita: with commentaries Nibandhasamgraha by Dalhana and Nyayachandrika by Gayadasa: Chaukhamba Surbharti Publication, Varanasi 5th edition, Nidana sthana, 16/4.
- 5. Madhvacharya: Madhav Nidana: with commentaries of Madhukosa by Vijayrakshita, Chaukhamba Surbharti Publication, Varanasi, 2008; 44\1.

- 6. Kaviraj Ambika Dutta Shastri, Sushrutasamhita, chapter 3- *Bhagna* chikitsa, Chitikasthana, sholk 67-68, Chaukhamba Surbharti Publication, Varanasi, reprint, 2016; 33.
- 7. Krishnachandra Chunekar, Bhavpraskash Nighantu, Chaukhamba Publication, 9: 549, 644.
- 8. Hayk. S. Arkelyan, Tokyo Medical University, Cucumber (Cucumis sativus)-Healthy Vegetable Mother Nature Healing, researchgate.net.