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A CRITICAL REVIEW OF DASHAMULA FORMULATIONS INVARIOUS DISEASES

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ABSTRACT

Dashamula (group of ten plants) as the name suggests contains roots of ten different plants. Of these, five are known as Brihat Panchamula and the remaining as Laghu Panchamula. It issued in the form of Kwath or Arishta according to Ayurveda. These formulations are used by the Ayurvedic practitioners in various conditions such as headache, relief of pain and swellingrelated to arthritis, pyrexia, abdominal distension and costo-chondral pains. It is described as an analgesic, anti-arthritic and anti-rheumatic combination. It is believed that the 10 ingredients in Dashamula may be serving different roles like adjuvant, carrier agent and stabilizer etc. Some of these ingredients have been evaluated in experimental models of inflammation and pain and have shown to possess anti-inflammatory and analgesic activities. Here this review article aims to give an overview on the various Dashamula formulations in the ancient text, it's probable mode of action as well as the recent scientific information of Dashamula, an Ayurvedic traditional herbal formulation with potential for the prevention and treatment of different diseases.

KEYWORDS: Dashamula, Laghu Panchmula, Brihat Panchmula, Arishta, Kwatha.

INTRODUCTION

The word "Dash" means ten and "Mula" means root. It consists of roots of ten plants which are divided further into two sub-groups; Brihat Panchamula and Laghu Pachamula. The former consists of five bigger plants (trees) - Bilva, Patala, Syonaka, Gambhari and Agnimantha while the latter consists of smaller ones (herbs) - Salaparni, Prisniparni, Brihati, Kantakari, and Goksura. All the plants of Brihat Panchamula have Tikta, Kashaya Rasa, Ushna Veerya and Katu Vipaka, whereas the constituent plants of Laghu Panchamula have Kashava, Tikta Rasa, Ushna Veerva and Madhura Vipaka. Dashamula, as a whole, acts on Tridosha, particularly on Vata Dosha, while the subgroups are effective particularly in Vata-Kapha Dosha and Vata-Pitta Dosha respectively. Dashamula (group of ten plants) is named so as it connects the ten Indriyas i.e. Pancha Gyanendriya (Chakshu, Shrotra, Ghraana, Rasanaa, Sparshna) and Pancha Karmendriya (Vaak, Paani, Paada, Paayu, Upastha). Dashamula is named also because it subsides ten types of Vayu viz. five types of Abhyantara Vayu (Prana, Udana, Samana, Vyana, Apana) and five types of Bahya Vayu (Dhananjaya, Daivavrit, Krinkala, Naga, Kurabha). [1] Also it strengthens ten Mahamula Dhamanis (the ten great vessels carrying Ojas with Rakta), pacifies all kinds of Vata and supports ten Indriyas, So, it is called Dashamula. Dashamula sustains

Ojas, sense-organs and ten Pranayatanas (seats of vitae). Root bark of the bigger plants is used i.e Brihat Panchamula and whole root of Laghu Panchamula is used. Dashamula is commonly used in the form of decoction.

Dashamularista is a popular formulation indicated in puerperal disorders (Sutika-Roga). Acharya Charaka mentions Dashamula as Sothahara Mahakasaya which indicates its action on Sotha (oedema). Vijayarkşita says it is effective in both Sotha and Jvara. At another place, Acharva Charaka has mentioned Brihat and Laghu Pancamulas under 'Panca Pancamulas' the other three being Madhyama, Jivana and Trina. Susruta, however, has replaced Madh, Yama and Jivana Pancamulas with Kantaka and Valli Pancamulas which are more appropriate for the surgical affections. [2] The herbs are used in making certain therapeutic massage oils, and are also used in the form of decoction to treat certain conditions. The drug of choice for treating Vata Dosha is Dashamula. In the Ayurvedic system of medicine it is used as an analgesic, antiarthritic, against cough and rheumatism etc.[3

Combination of Brihat Pancamula and Laghu Pancamula is known as Dashamula.

bie No. 1: Table showing Drugs of Dashamula with Guna Karma."							
	Sl. No.	Dravya Name	Botanical Name	Guna Karma			
	1.	Patala	Stereospermum suaveolens (Roxb.) DC				
	2.	Agnimantha	Premna integrifolia Linn.	Doshakarma-			
	3.	Syonaka	Oroxylum indicum (L.) Kurz	Tridosahara.			
	4.	Bilva	Aegle marmelos (L.) Correa	Karma-			
	5.	Kasmarya	Gmelina arborea Roxb.	Swasahara, Kasahara, Rujahara, Jwarahara.			
	6.	Kantakari	Solanum xanthocarpum Schard. &Wendl.	Indications- Swasa,			
	7.	Brihati	Solanum indicum Linn.	Kasa, Siroruja, Tandra, Sotha, Jwara, Anaha,			
	8.	Salaparni	Desmodium gangeticum (L.) DC	Parswapida.			
	9.	Prisniparni	Uraria picta (Jacq.) DC	1 arswapida.			
	10	Goksuraka	Tribulus terrestris I inn				

Table No. 1: Table showing Drugs of Dashamula with Guna karma. [4]

Efficacy of Dashamula Herbal Formulation

- ◆ Dashamula is mentioned under Shothahara (antiinflammatory) (Ch./su./4/16, 38) and Vatahara drugs (Ch./su./3/19). According to Charaka Samhita, Dashamula drugs are Svayathuhara gana i.e. the group of ten drugs that combat oedema.
- ◆ In Shushruta Samhita, (Ch.38/70-71), Dashamula is considered to be Tridosha Shamak, Swashnashak, aamdoshapachak and cures all types of fever.
- In Bhavprakash, it is mentioned under Guduchyaadi Varga and is considered as Tridoshashamak. It is indicated to cure breathing disorder, cough, headache, edema, fever,
- backache etc.

Recent Advancements

These plants are reported to have anti-inflammatory, antifungal and wound healingproperties.^[5,6]

- ◆ Individually root extracts of various plants of Dashamula viz. Aegle marmelos (L.) Correa, [7] Premna integrifolia Linn., [8] Desmodium gangeticum (L.) DC, [9-12] Oroxylum indicum (L.) Kurz, [13,14] and Uraria picta (Jacq.) DC, [15] Stereospermum suaveolens (Roxb.) DC [16] have exhibited anti-inflammatory potential in vivo.
- ♦ In a comparative study of roots of Dashamula plants it has shown that all plants as well as Dashamulas a whole possess wide-ranging in vivo anti-inflammatory potential. [17a&b]
- Dashamula is also known for having antimicrobial activity.^[5]
- ♦ Dashamularishta, is a well-known drug prepared from Dashamula, is traditionally used as ananalgesic as well as anti-arthritic agent. It is used for cough, rheumatism etc. and also suggested for ovulation related disorders. [18,19]
- Dashamularishta have shown to possess antiinflammatory activity in cotton pellet induced granuloma and carrageenan induced rat paw edema models.^[20]
- ♦ It is shown that Dashamularishta has peripheral as well as central analgesic activity in various animal models. [20,21]
- ♦ A study was conducted for evaluation of efficacy of

- Dashamularishta in cervivitis which reports the efficacy of Dashamularishta in cervicitis for first time without any adverse effect. [22]
- In a study, it is shown that Dashamularishta possess highest anti-inflammatory potential amongst selected dosage forms of Dashamula in carrageenan induced rat paw edema model.^[17a]
- ◆ In a recent study, it was found that Dashamularishta samples have exhibited significant anti-oxidant and anti-inflammatory activity. [23]
- ◆ Experimental evaluation of analgesic, antiinflammatory and anti-platelet potential of Dashamula demonstrated that Dashamula had antiinflammatory, analgesic and anti-platelet effects comparable to that of aspirin. It was shown that combination of Dashamula with aspirin did not offer any advantage over aspirin alone.^[24]
- Evaluation of Calcium Concentration of Medicinal Plants Incorporating in Dashamula by Atomic Absorption Spectroscopy was done. The level of Calcium in selected medicinal plantswas observed to be under the prescribed limits. [25]
- ♦ Determination of natural compounds in Dashamula extracts by thin layer chromatography and highpressure liquid chromatography was done in which attempts were made to isolate various pure bio actives from Dashamula and beta sitosterol, stigmasterol and lupeol were isolated which are potentials source as anti HIV agents. It can be concluded that these plants have potential role in future as drug or therapeutic targets. [26]
- Analgesic Effects of Dashamula, in Animal Models was evaluated. It was found that a comparatively greater degree of analgesia was observed in a group which was treated with Dashamula high dose as compared to a group which was treated with Diclofenac sodium.^[27]
- Clinical Study of Sutika-Dashamula Kwatha in wellbeing of Sutika Shikha was conducted. Effect of the trial drugs showed improvement in physical, physiological and psychological parameters of Sutika. Along with improvement in objective parameters like Hb %, TLC, ESR, Urine RBCs, Urine WBC, Urine Epi. Cells and Urine Protein, no

adverse effect or complication was produced with the use of this treatment. Also it was concluded that the treatment was safe, economic, non-surgical, very effective and can be progressively used during puerperium for Sutika well-being. [28]

• Elemental Analysis of Dashamula formulation by ICP-Ms Technique was done which shows the

presence of zinc, manganese and other essential elements and these elements are having vital role in all the function and need of the body. So it may be useful to the human being in the cure, treatment and prevention of many diseases.^[29]

OBSERVATIONS

Table no. 2: Table showing Dashamula Yogas with indication.

Dashamuladi Kwatha	S.No.	Dashamuladi Yoga	Indications	Corresponding Reference
2 Dashamula Haritaki 3 Dashamula Kwatha 4 Parishek 5 Dashamula Kwatha 6 Dashamula Kwatha 7 Dashamula Kwatha 8 Dashamula Kwatha 9 Dashamula Kwatha 1 Dashamula Kwatha 1 Dashamula Kwatha 9 Dashamula Kwatha 1 Dashamula Kwatha 1 Dashamula Kwatha 1 Dashamula Kwatha 9 Dashamula Kwatha 1 Dashamula Kwatha 2 Dashamula Kwatha 3 Dashamula Kwatha 4 Dashamula Kwatha 5 Dashamula Kwatha 5 Dashamula Kwatha 6 Dashamula Kwatha 7 Dashamula Kwatha 9 Dashamula Kwatha 1 Dashamula Ghrita 1 Vataroga 2 Cakradutta, Kasa Chikitsa/11 2 Chikitsa adhaya/17 Chikitsa 2 Cakradutta, Kasa Chikitsa/11 2 Chara Samita, Kasa Chikitsa 3 Chikitsa adhaya/17 Chikitsa 3 Chara Chikitsa adhaya/17 Chikitsa 4 Shana Ghrita 2 Chara Samita, Kasa Chikitsa 3 Chikitsa adhaya/10 Chikitsa 4 Shana Ghrita 2 Chara Samita, Kasa Chikitsa 3 Chikitsa adhaya/10 Chikitsa 4 Shana Ghrita 4 Dashamula Ghrita 4 Dashamula Ghrita 5 Dashamula Ghrita 6 Cakradutta, Santhana 6 Chikitsa adhaya/10 Chikitsa 6 Chara Samita, Kasa Chikitsa 6 Cakraduta, Santhana Chikitsa 6 Chikitsa adhaya/10 Chikitsa 6 Chara Samita, Kasa Chi	1	Dachamuladi Kwatha		,
Dashamula Kwatha Roga, Pandu Roga, Udara Roga Rogadhikara/42	1	Dashamulaui Kwatna		
Boshamula Kwatha Ardhavabhedaka, SuryavartaSirasula Cakradatta, Siroroga Chikitsa/1	2	Dashamula Haritaki		
Artinavaphedaka, Suryavartasirasula			Roga, Pandu Roga, Udara Roga	
Asaya	3		Ardhayabhedaka SuryayartaSirasula	
Parishek			Thanavaonodaka, Sarjavarasirasara	
Farishek	4		Sotha, Vrana	
Dashamula Kwatha Parswasula, Siroroga, Ksaya, Kasa Cakradutta, Rajayaksma Chikitsa/11		Parishek		
6 Dashamula Kwatha Parswasula, Siroroga, Ksaya, Kasa Cakradutta, Rajayaksma Chikitsa/11 7 Dashamula Kwatha Parswasula, Jwara, Swasa, Kaphaja Kasa Cakradutta, Kasa Chiktsa/23 8 Dashamula Kwatha Kasa, Swasa, Parswasula, Hrtsula Cakradutta, Hikka-Swasa Chikitsa/12 9 Dashamula Kwatha Kasa, Swasa, Hrdroga, Gulma, Sula Roga Chikitsa/19 10 Dashamula Kwatha Vatakundalika, Asthila, VastivataRoga Chikitsa/19 11 Dashamula Kwatha Vataja Sotha Roga Cakradutta, Hrdroga Chikitsa/19 12 Dashamula Kwatha Watipa Sotha Roga Cakradutta, Sotha Chikitsa/2 13 Dashamula Kwatha Badhirya Cakradutta, Sotha Chikitsa/2 14 Dashamula Taila Badhirya Cakradutta, Karnaroga Chikitsa/28 15 Dashamula Taila Abhyanga for Sirasula, Nasya forJwara, Aruchi, Paalitya Rogadhikara/6 Cakradutta, Vatavyadhi Chikitsa/22 16 Dashamula Ghrita Vataroga Chikitsa/10 17 Dashamula Ghrita Vatakaphaja Kasa, VatakaphajaSwasa Chardutta, Kasa Chikitsa/11 18 Dashamula Ghrita Vatakaphaja Kasa, VatakaphajaSwasa Chardutta, Kasa Chikitsa/11 19 Dashamuladi Leha Vatakaphaja Kasa, VatakaphajaSwasa Chardutta, Kasa Chikitsa Sthana 19 Dashamuladi Guda Gulma, Pleeha, Arsa, Kustha, Meha, Agnimandya Chikitsa Gulma, Bhagandara, Vatavyadhi, Kaya, Chardi, Panduroga, Kamala, Kustha, Arshas, Meha, Mandagni, Udara, Sarkara, Ashmari, Mutrakrchra, Dhatuksaya 20 Dashamula Kwatha Santipaataja Jwara. Sharangdhar Samhita, Kwatha Kalpana adhaya/2madhyam	5	Dashamula Kwatha	Sutikaroga	
Dashamula Kwatha				
7 Dashamula Kwatha Parswasula, Jwara, Swasa, Kaphaja Kasa Cakradutta, Kasa Chiktsa/23 8 Dashamula Kwatha Kasa, Swasa, Parswasula, Hrtsula Cakradutta, Hikka-Swasa Chikitsa/12 9 Dashamula Kwatha Kasa, Swasa, Hrdroga, Gulma, Sula Roga Chikitsa/19 10 Dashamula Kwatha Vatakundalika, Asthila, VastivataRoga Chikitsa/19 11 Dashamula Kwatha Vataja Sotha Roga Cakradutta, Sotha Chikitsa/2 12 Dashamula Kwatha Vataja Sotha Roga Cakradutta, Sotha Chikitsa/2 13 Dashamula Taila Badhirya Cakradutta, Karnaroga Chikitsa/28 14 Dashamula Taila Badhirya Cakradutta, Karnaroga Chikitsa/28 15 Dashamula Ghrita Vataroga Chikitsa/2 16 Dashamula Ghrita Vatayaga Cakradutta, Vatavyadhi Chikitsa/22 16 Dashamula Ghrita Vataya Kasa Cakradutta, Vatavyadhi Chikitsa/29 17 Dashamula Ghrita Vatayan Vatakaphaja Kasa Cakradutta, Vatavyadhi Chikitsa/18 Chikitsa Sthana 18 Dashamuladi Leha Cakradutta Vatavandi, Karsya, Amavata, Amlapitta, Raktapitta, Vaivarnya, Vatajamutra dosa, Vataja Sukradosa, Svasa, Aruci, Pleeha Roga, Garavisa, Udararoga 19 Dashamuladi Guda Calma, Pleeha, Arsa, Kustha, Meha, Agnimandya 20 Dashamularistha Chang, Garahani, Aruchi, Swasa, Kasa, Gulma, Bhagandara, Vatavyadhi, Ksaya, Chardi, Panduroga, Kamala, Kustha, Arshas, Meha, Mandagni, Udara, Sarkara, Ashmari, Mutrakrchra, Dhatuksaya 21 Dashamula Kwatha Santipaataja Jwara. Santipaa dhaya/2madhyam	6	Dashamula Kwatha	Parswasula, Siroroga, Ksaya, Kasa	
Bashamula Kwatha Kasa, Swasa, Parswasula, Hrtsula Cakradutta, Hikka-Swasa Chikitsa/12	7	Dashamula Vanatha		
Dashamula Kwatha Kasa, Swasa, Parswasula, Firisula Chikitsa/12	/	Dashamula Kwatha	Parswasuia, Jwara, Swasa, Kapiiaja Kasa	
9 Dashamula Kwatha Kasa, Swasa, Hrdroga, Gulma,Sula Roga Chikitsa/19 10 Dashamula Kwaatha Vatakundalika, Asthila, VastivataRoga Yogaratnakar, Mutraghata Chikitsa/19 11 Dashamula Kwatha Vataja Sotha Roga Cakradutta, Sotha Chikitsa/2 12 Dashamula Kwaatha Kantha Graha, Hrdgraha Bhavarpakasa, Jwaradhikara/473 13 Dashamula Taila Badhirya Cakradutta, Karnaroga Chikitsa/28 14 Dashamula Taila Abhyanga for Sirasula, Nasya forJwara, Aruchi, Paalitya Rasa Cakradutta, Vatavyadhi Chikitsa/28 15 Dashamula Ghrita Vataja Kasa Cakradutta, Vatavyadhi Chikitsa/22 16 Dashamula Ghrita Vataja Kasa Cakradutta, Vatavyadhi Chikitsa/22 17 Dashamula Ghrita Vatakaphaja Kasa, VatakaphajaSwasa Charak Samhita, Kasa roga chikitsa/18 Chikitsa Sthana 18 Dashamuladi Leha Pravriddha, Sotha, Jwara, Gulma, Meha, Karsya, Amwata, Amlapitta, Raktapitta, Vatiavarnya, Vatajamutra dosa, Vataja Sukradosa, Svasa, Aruci, Pleeha Roga, Garavisa, Udararoga 19 Dashamuladi Guda Gulma, Pleeha, Arsa, Kustha, Meha, Agnimandya Chikitsa adhaya/17 Chikitsa Sthana 20 Dashamularistha Vata Roga, Grahani, Aruchi, Swasa, Kasa, Gulma, Bhagandara, Vatavyadhi, Ksaya, Chardi, Panduroga, Kamala, Kustha, Arshas, Meha, Mandagni, Udara, Sarkara, Ashmari, Mutrakrchra, Dhatuksaya 21 Dashamula Kwatha Santipaataja Jwara. Sharangdhar Samhita, Kwatha Kalpana adhaya/2madhyam	8	Dashamula Kwatha	Kasa, Swasa, Parswasula, Hrtsula	
Dashamula Kwatha				
Dashamula Kwaatha	9	Dashamula Kwatha	Kasa, Swasa, Hrdroga, Gulma, Sula Roga	
Dashamula Kwatha				
Dashamula Kwatha Vataja Sotha Roga Cakradutta, Sotha Chikitsa/2	10	Dashamula Kwaatha	Vatakundalika, Asthila, VastivataRoga	
Dashamula Kwaatha Kantha Graha, Hrdgraha Bhavaprakasa, Jwaradhikara/473	11	Dashamula Kwatha	Vataja Sotha Roga	
13 Dashamula Taila Badhirya Cakradutta, Karnaroga Chikitsa/28 14 Dashamula Taila Abhyanga for Sirasula, Nasya forJwara, Aruchi, Paalitya Paalitya Badhirya Ratnavali, Siro Rogadhikara/ 65 15 Dashamula Ghrita Vataroga Cakradutta, Vatavyadhi Chikitsa/22 16 Dashamula Ghrita Vataja Kasa Cakradutta, Vatavyadhi Chikitsa/22 17 Dashamula Ghrita Vatakaphaja Kasa, VatakaphajaSwasa Cakradutta, Kasa Chikitsa/11 18 Dashamuladi Leha Pravriddha, Sotha, Jwara, Gulma, Meha, Karsya, Amavata, Amlapitta, Raktapitta, Vaivarnya, Vatajamutra dosa, Vataja Sukradosa, Svasa, Aruci, Pleeha Roga, Garavisa, Udararoga Gulma, Pleeha, Arsa, Kustha, Meha, Agnimandya Sthana 19 Dashamuladi Guda Gulma, Pleeha, Arsa, Kustha, Meha, Agnimandya Sthana Chikitsa adhaya/8 Chikitsa Sthana Vata Roga, Grahani, Aruchi, Pleeha Roga, Ghikitsa adhaya/8 Chikitsa Sthana Sthana Vata Roga, Grahani, Aruchi, Swasa, Kasa, Gulma, Bhagandara, Vatavyadhi, Ksaya, Chardi, Panduroga, Kamala, Kustha, Arshas, Meha, Mandagni, Udara, Sarkara, Ashmari, Mutrakrchra, Dhatuksaya Dashamula Kwatha Santipaataja Jwara. Sharangdhar Samhita, Kwaath Kalpana adhaya/2madhyam				
14 Dashamula Taila Badiliya Chikitsa/28 14 Dashamula Taila Abhyanga for Sirasula, Nasya forJwara, Aruchi, Paalitya Bhaisajya Ratnavali, Siro Rogadhikara/65 15 Dashamula Ghrita Vataroga Cakradutta, Vatavyadhi Chikitsa/22 16 Dashamula Ghrita Vataja Kasa Cakradutta, Kasa Chikitsa/11 17 Dashamula Ghrita Vatakaphaja Kasa, VatakaphajaSwasa Chikitsa/18 Chikitsa Sthana Pravriddha, Sotha, Jwara, Gulma, Meha, Karsya, Amavata, Amlapitta, Raktapitta, Vaivarnya, Vatajamutra dosa, Vataja Sukradosa, Svasa, Aruci, Pleeha Roga, Garavisa, Udararoga Dashamuladi Guda Gulma, Pleeha, Arsa, Kustha, Meha, Agnimandya Gulma, Bhagandara, Vatavyadhi, Ksaya, Chardi, Panduroga, Kamala, Kustha, Arshas, Meha, Mandagni, Udara, Sarkara, Ashmari, Mutrakrchra, Dhatuksaya Dashamula Kwatha Santipaataja Jwara. Sharangdhar Samhita, Kwaath Kalpana adhaya/2/madhyam	12	Dashamula Kwaatha	Kantha Graha, Hrdgraha	
14 Dashamula Taila Badiliya Chikitsa/28 14 Dashamula Taila Abhyanga for Sirasula, Nasya forJwara, Aruchi, Paalitya Bhaisajya Ratnavali, Siro Rogadhikara/65 15 Dashamula Ghrita Vataroga Cakradutta, Vatavyadhi Chikitsa/22 16 Dashamula Ghrita Vataja Kasa Cakradutta, Kasa Chikitsa/11 17 Dashamula Ghrita Vatakaphaja Kasa, VatakaphajaSwasa Chikitsa/18 Chikitsa Sthana Pravriddha, Sotha, Jwara, Gulma, Meha, Karsya, Amavata, Amlapitta, Raktapitta, Vaivarnya, Vatajamutra dosa, Vataja Sukradosa, Svasa, Aruci, Pleeha Roga, Garavisa, Udararoga Dashamuladi Guda Gulma, Pleeha, Arsa, Kustha, Meha, Agnimandya Gulma, Bhagandara, Vatavyadhi, Ksaya, Chardi, Panduroga, Kamala, Kustha, Arshas, Meha, Mandagni, Udara, Sarkara, Ashmari, Mutrakrchra, Dhatuksaya Dashamula Kwatha Santipaataja Jwara. Sharangdhar Samhita, Kwaath Kalpana adhaya/2/madhyam	1.2	Dashamula Taila	D. II.L.	Cakradutta, Karnaroga
Dashamula Ghrita Vataroga Rogadhikara/ 65 15	13	Dasnamuia Taila	Вайпігуа	
Dashamula Ghrita Vataroga Cakradutta, Vatavyadhi	1.4	Dachamula Taila	Abhyanga for Sirasula, Nasya forJwara,	Bhaisajya Ratnavali, Siro
15 Dashamula Ghrita Vataroga Chikitsa/22 16 Dashamula Ghrita Vataja Kasa Cakradutta, Kasa Chikitsa/11 17 Dashamula Ghrita Vatakaphaja Kasa, VatakaphajaSwasa Chikitsa/18 Chikitsa Sthana Pravriddha, Sotha, Jwara, Gulma,Meha, Karsya, Amavata, Amlapitta, Raktapitta, Vaivarnya,Vatajamutra dosa, Vataja Sukradosa, Svasa, Aruci, Pleeha Roga, Garavisa, Udararoga 19 Dashamuladi Guda Gulma, Pleeha, Arsa, Kustha,Meha, Agnimandya Dashamularistha Vata Roga, Grahani, Aruchi, Swasa, Kasa, Gulma, Bhagandara, Vatavyadhi, Ksaya, Chardi, Panduroga, Kamala, Kustha, Arshas, Meha, Mandagni,Udara, Sarkara, Ashmari, Mutrakrchra, Dhatuksaya Dashamula Kwatha Santipaataja Jwara. Sharangdhar Samhita, Kwaath Kalpana adhaya/2madhyam	14	Dashamula Tana	Aruchi, Paalitya	-
16 Dashamula Ghrita Vataja Kasa Chikitsa/11 17 Dashamula Ghrita Vatakaphaja Kasa, VatakaphajaSwasa Chikitsa/18 Chikitsa Sthana Pravriddha, Sotha, Jwara, Gulma, Meha, Karsya, Amavata, Amlapitta, Raktapitta, Vaivarnya, Vatajamutra dosa, Vataja Sukradosa, Svasa, Aruci, Pleeha Roga, Garavisa, Udararoga Dashamuladi Guda Gulma, Pleeha, Arsa, Kustha, Meha, Agnimandya Gulma, Pleeha, Arsa, Kustha, Meha, Agnimandya Sharangdhar Samhita, Chardi, Panduroga, Kamala, Kustha, Arshas, Meha, Mandagni, Udara, Sarkara, Ashmari, Mutrakrchra, Dhatuksaya Chikitsa Astanga Hridayam, Arsas Chikitsa adhaya/17 Chikitsa Sthana Astanga Hridayam, Arsas Chikitsa adhaya/8 Chikitsa Sthana Sharangdhar Samhita, Sandhana Kalpana adhaya/10 madhyam kandha Sharangdhar Samhita, Kwaath Kalpana adhaya/2madhyam	15	Dashamula Ghrita	Vataroga	
Dashamula Ghrita Vatakaphaja Kasa, VatakaphajaSwasa Pravriddha, Sotha, Jwara, Gulma, Meha, Karsya, Amavata, Amlapitta, Raktapitta, Vaivarnya, Vatajamutra dosa, Vataja Sukradosa, Svasa, Aruci, Pleeha Roga, Garavisa, Udararoga Dashamuladi Guda Dashamuladi Guda Dashamularistha Vata Roga, Grahani, Aruchi, Swasa, Kasa, Gulma, Bhagandara, Vatavyadhi, Ksaya, Chardi, Panduroga, Kamala, Kustha, Arshas, Meha, Mandagni, Udara, Sarkara, Ashmari, Mutrakrchra, Dhatuksaya Charak Samhita, Kasa roga chikitsa/18 Chikitsa Sthana Astanga Hridayam, Arsas Chikitsa adhaya/17 Chikitsa Sthana Astanga Hridayam, Arsas Chikitsa adhaya/8 Chikitsa Sthana Vata Roga, Grahani, Aruchi, Swasa, Kasa, Gulma, Bhagandara, Vatavyadhi, Ksaya, Chardi, Panduroga, Kamala, Kustha, Arshas, Meha, Mandagni, Udara, Sarkara, Ashmari, Mutrakrchra, Dhatuksaya Sharangdhar Samhita, Kwaath Kalpana adhaya/2madhyam				
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	21	Dashamula Kwatha	Santipaataja Jwara.	

Table no. 3: Table showing chemical constituents and pictures of Dashamula. [30]

S.No.	Plant Name	Chemical Constituents	References in API
1	Bilva (Aeglemarmelos Corr.)	Auraptene, coumarins, glycosides–inroot; Coumarins and sterols-in bark	Part I, Vol.IV, 12– 13p;Vol.III, 29– 31p.
2	Agnimantha (Clerodendrum phlomidisLinn.)	Sterols	Part I, Vol.III, 3– 5p.
3	Shyonaka (Oroxylum indicum Vest.)	Flavanoids, tannins	Part I, Vol.III, 209– 210p.
4	Kashamari (Gambhari) (Gmelina arborea Linn.)	Lignans-in bark; Lignans and alkaloids-in root	Part I, Vol.IV, 31–32; Vol-I,36–37p.
5	Patala (Stereospermum suaveolens DC.)	Bitter substances, sterols, glycosides,	Part I, Vol.III, 147– 148p.
6	Shalaparni (Desmodium gigenticum DC.)	Alkaloids; flavonoids, desmocarpin, pterocarpan, desmodin, gangetin, gangetinin, others:2(NNdimethylamino)acetophenone	Part I, Vol.VI, 139– 141p.
7	Prishniparni(Uraria picta Desv.)	Alkaloids, reducing sugars and sterols	Part I, Vol.IV, 99– 101p.
8	Shvadanshtra (Goksura) (Tribulus terrestris Linn.)	Alkaloids: terrestriamide, tribulusamideA, B: steroidal saponins, terrestrosin C-K, terrestroneoside A and F, terreside Aand B, terrestrosin J, isoterrestrosin B; flavonoid glycosides: isohamnetin-3- gentiotrioside, quercetin-3- gentiobioside-7glucoside: amide, moupinamide—in bark; Alkaloids and saponins-in root	Part I, Vol.VI, 56–58p;Vol.I. 38–39p.
9	Brihati (Solanumanguivi Lam.)	Steroidal saponins: protodiscin saponinC, indioside A, B, C, D and E, solafuranone.	Part I, Vol.VI, 26– 28p.
10	Kantakari (Solanum surattense Burm.f., syn- solanum xanthocarpumSchard and Wendl.)	Glucoalkaloids and Sterols	Part I, Vol.VI, 59– 61p

DISCUSSION

Dashamula is a combination of roots of ten plants i.e. (Aegle marmelos Corr.), Agni-(Clerodendrum phlomidis Linn.), Shyonaka (Oroxylum indicum Vest.), Patala (Stere- ospermum suaveolens DC.), Kashamari (Gambhari)(Gmelina arborea Linn.), Shalaparni (Desmodium gigenticum DC.), Prishniparni (Uraria picta Desv.), Shvadanshtra (Goksura) (Tribulus terrestris Linn.), Brihati (Solanum anguivi Lam.), Kantakari (Solanum surattense Burm.f., syn-solanum xanthocarpum Schard and Wendl.) which acts as Tridoshahara and specifically pacify Vata Dosha and relieves pain in all kind of inflammation. In classical texts, ample number of Dashamula formulations are given which are used by ayurvedic physician for several disorders like Swasa, Kasa, Siroruja, Tandra, Sotha, Jwara, Anaha, Parswapida etc. The clinical efficacy of Dashamula is quite high. A lot of research work has been done on Dashamula and on individual drugs of Dashamula. The results of these research articles are very encouraging which indicates that Dashamula have great therapeutic properties according to its Guna and Karma. Total 21 formulations of Dashamula were reviewed from different classical texts which are indicated for different diseases. Dashamula is widely used in varied form like in the form of Kwaath, Taila, Leha etc. Different formulations of Dashmula treat different kind of ailments. Mostly all the drugs of Dasamula exhibit antiinflammatory prop-erties.

Probable Mode of Action

Brihatpanchmula is Kaphashamak due to its Laghu, Ushna, Ruksha Guna and Tikta-Kashaya Rasa. It is Vatashamak due to its Ushna Virya. Brihatpanchmula drugs are Tikta, Madhura Rasa Pradhana having Dipana, Pachan property because of its Tikta rasa and Ushna virya. So,it is indicated in Agnimandya, Aruchi, Ajeerna and Grahani Roga. Dashmula clears the obstruction of Pranavaha Strotas due to its Ushna Virya and Kapha Shamak properties; it is spe-cially indicated in Vataja and Vata-Kaphaja Kasa and Swaas Roga.

Laghupanchmula drugs are Kasaya, Tikta, Madhura Rasa Pradhana, Vatapitta Shamak due toMadhur Rasa, Madhur Vipaka and Ushna Virya and Pitta Shamak due to its Madhur-Tikta Rasa and Madhur Vipaka. Laghupanchmula is having Madhur Vipaka which increases the Dhatu and promotes strength. It mainly subsides Vataj and Pittaj Jwara. Drugs of Laghupanchmula in dasamula mainly act on Jwara. Dashmula Haritaki, Dashmula Kwaatha, Dash- mula Leh are indicated in Jwara, Nasya of Dashmula Taila is given in Jwara. It is used in Swasa Roga as it pacifies Vata and releases the Praana Vayu such that it moves in normal direction. As it has Mutral properties so it is mainly used in Vataja and Pittaja Ashmari. The Mutral properties are mainly because of Gokshura as it is Madhura Rasa predominant, Guru, Snighdha Guna and Sheeta Virya. Agnimanth, Paatla and Gambhari of Dashmula are Tikta-Kashaya Rasa Pradhan and Ushna Virya. These three

drugs of Dashmula are having Sotha-hara action which helps different formulations of Dashmula to treat Sotha like Dashmuladi Kwaatha, Dashmuladi Leh and Parishek of Dashmuladi Kwaatha. Kantkari and Brihati are Tikta-Katu Rasa predominant and having Laghu, Ruksha, Tikshna Guna and Ushna Virya and Katu Vipaka due to its Laghu Guna, it clears the channel which is obstructed with Kapha. As both are having Ushna Guna hence it liquefies the channels blocked with Kapha thereby having Kasahar properties. Due to its Ruksha Guna it absorbs the obstruction. Due to Ushna Virya, it subsides Vata and Kapha and does Paachan of Dosha. Dashmula Kwaatha and Dash-mula Ghrita are indicated for Kasa. Prishanparni and Vidharigandha are Madhur-Tikta Rasa Predominant, Laghu, Snigdha Guna Pradhan, Ushna Virya and Madhur Vipaka. Due to its Ushna Virya and Madhur Vipaka it pacifies Vata and is indicated in Angamardaprashman.

Shyonak of Dashmula is Madhur-Kashaya-Tikta Rasa predominant, due to its Ruksha and Laghu Guna and Ushna Virya it helps in Aampaachan. Hence different formulations of Dash-mula is having Tridoshaghna properties specially Vatadosha Shaamak and is used in VataVyaadhi.

CONCLUSION

From this review, we can concluded that Dashmula is a highly beneficial group of ten drugs which can be used in various forms in different diseases. It can be used in diseases like Swasa-Kasa, Jwara, in different Vata Vyaadhi especially in Parswapida (backache), siroruja (headache) etc. There are many recent researches which shows it has anti-inflammatory, an- timicrobial activity, analgesic effects etc. Several studies have been carried out to validate the potential of Dashmula Churna and individual plants of Dashmula. Dashmula shows lot of po- tential in future for curing various diseases and are useful for Ayurvedic physicians. This makes it one of the most valuable herbal preparations.

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