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Review study of Dadima and study its clinical efficiency in Pandu

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Abstract:

Our humanity is fighting for existence like all other animal species from centuries. Some info the birds and animals are endangered today and some even vanished. They can only be seen in encyclopaedia. But human learned to fight disease and succeeded in the livelihood. They learned science to prevent and cure disease, empowerment immune system and kept ourselves healthy. Ayurveda is a branch of science which deals with maintaining health and treating the diseased condition of the body. To serve this both purpose, required thing is drug. Generally two types of drugs are present, namely Ahara Dravya and Ayshadha Dravya. Ahara Dravya promotes health and Ayshadha dravya fights disease. So knowledge of drugs is very important thing while achieving both aims of Ayurveda. Dadima is one of the drug used as a medicinal drug as well as food material. It is one of the most popular consumed fruit in India. Fruit, its skin and skin of root is used for the preparation of the medicine. It is most effective in immunity boosting. Pandu or Anemia is one of the nutritional deficiency disorder. World Health Organisation has given it's more prevalence in developing and under developed countries. Dadima can be considered as a potent nutraceutical as it contains more phytoconstituents. Its increased content of polyphenols may prevent RBC destruction due to reduced oxidative stress. It exhibits antioxidant activity. So present study is an attempt to study Dadima and its clinical efficacy in Pandu.

Keywords: Pandu, Dadima Dravya, Anemia.

Introduction:

As we are moving forward in current new era,

there is growing fascination towards the traditional wisdom of ancient India, perhaps this is because it is based on law of nature that are timeless. Hence, it is as relevant to our well being today as it was thousand years ago. This is true for Ayurveda, the ancient and holistic healing system and the practice of it in India is for overs 5000 years ago. The basic and applied knowledge of Ayurveda has survived to the present times through various branches like Kayachikitsa, Shalya tantra, Shalakya tantra, Dravyaguna etc. The branch Dravyaguna deals comprehensively about veerya, vipaka and prabhava rasa, (pharmacokinetics and pharmacodynamics) of herbs. Branch also deals with introduction, identification,

collections, storage and preservation of raw material of plant origin.

Nourishment is a major point of concern in today's era. It exists in developing and under developed countries. Most of the countries in Asia are under developed. In India, per capita is income is very low. It results in the formation of nutritional disorders due to inadequate nutrition. The commonest occurring disease is Pandu means Anemia. It has been one the disease responsible for mortality and morbidity in today's world. Report of World Health Organisation of 2002 states that Iron deficiency anemia is one among the top 10 selected risk to the One survey Fifth national health survey conducted during 2019 to 2021 given the prevalence of anemia in India. It is 25 % in adult men, 57 % in adult women, 31 % in adolescents boys, 59.1 % in adolescents girls, 52.2 % in pregnant women and 67.1 % in children. Mostly it is due to malnutrition.

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Dadima is most commonly used fruit. It is an ancient, borne on a small, long living deciduous shrub. It has its native in Iran, Afganistan and Balochistan, but it found all over India. Its store place is Udhampur (Jammu). Dadima's fruit is used for food as well as medicinal properties. Ayurvedic pharmacology and modern nutritional science have discovered numerous pharmacological properties of fruits, seeds, flowers, bark of Dadima and recommend their therapeutic use for various diseased conditions. Dadima is potent nutraceutical as it has more proportion of phytoconstituents. Fruit contains 22 to 25 % tannins. This more concentration of polyphenols prevents destruction of RBCs. This antioxidant activity is much higher than red wine, green tea and other juices.

Aim:

To study Dadima and study its clinical efficacy in Pandu.

Objective:

- 1. Detail review study of Dadima through all Ayurvedic Samhitas.
- 2. Detail study of *Pandu*.
- 3. To study clinical efficacy of Dadima in Pandu.

Review of Literature – Our Ayurveda and Modern Science have stated pharmacological properties of Dadima drug in detail.

दाडिम: करको दन्तबीजो लोहीतपुष्पकः |
तरफलं त्रिविधं स्वादु स्वादुम्लंकेवलाम्लकम् ||
तत्तु स्वादु त्रिदोषघ्नं तृड्दाहज्वरनाशनम् |
हत्कण्ठमुखदोषघ्नं तर्पणं शुक्रलं लघु ||
कषायानुरसं ग्राही स्निग्धं मेधाबलप्रदम् |
स्वाद्वम्लं दीपनं रूच्यं किंचित्पित्तकरं लघु ||
अम्लं तु पित्तजनकमामवातकफाहम् | (भावप्रकाश)
अम्लं कषायमधुरं वातघ्नं ग्राही दीपनम् |

अम्ल कषायमधुर वातघ्न ग्राही दोपनम् |
स्निग्धोष्णं वाडिमं हृद्यं कफिपत्ताविरोधि च ||
रूचाम्लं वाडिमं यत्तु तत् पित्तानिलकोपनम् |
मधुरं पित्तनुतेषां तिध्व वाडिममुत्तमम् || (च.सू.२७)

कषायानुरसं तेषां दाडिमं नातिपित्तलम् | दीपनीयं रूचिकरं हृद्यं वर्चोविबंधनम् || द्विविधं तत्तु विज्ञेयं मधुरं चाम्लमेव च |

त्रिदोषघ्नं तु मधुरमम्लं वातकफापहम् ॥ (सु.सू.४६)

Drug - Dadima

Family - Punicaceae

Gana- Hrudya gana, Chhardinigrahan gana,

Parushakadi gana

Latin Name – Punica granatum Linn.

Other names -

Sanskrit – Dadim, Dantabeej, Lohitpushpak

Hindi - Anar

Marathi- Dalimb

Gujarati – Dadam

Tamil – Madulai

Telugu – Danimma

Kannada – Dalimb

Malyalam – Matalam

Farasi- Anar

Arabi- Rumman

English – Pomegranate

Chemical Composition –

Pomegranate contains 78 % Liquidity, 1.6% protein, 0.1 % fat, 5.1 % cellulose, 14.5 % Carbohydrates, 0.7 % minerals. It also has 10 mg Calcium, 12 mg Magnesium, 14 mg Oxalic acid, 70 mg Phosphorus, 0.3 mg Loha, 0.8 mg Sodium, 133 mg Potassium, 0.2 mg copper, 12 mg Sulphur, 2 mg Chlorine, 0.06 mg thiamine, 0.1 mg Riboflavin, 0.30 mg Nicotinic acid and 14 mg Vitamin C.

Table: Rasapanchaka of Dadima

Nighantu	Rasa	Gun a	Veer ya	Vipa ka	Doshaghn ata
Dhanwan tari Nighantu (D.N.)	Madh ura	Lagh u	Shee ta	Madh ura	Kaphapitta ghna
Shaligra m Nighantu (S.N.) Priyangu Nighantu (P.N.) Bhavapra kash Nighantu (B.N.)	Kasha ya	Snig dha		Madh ura (B.P., P.N.)	Tridoshgh na (S.N.)

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Madanap al Nighnatu (M.N.) Nighantu Adarsha (N.A.)	Madh ura, Amla, Kasha ya	Lagh u	Shee ta	Madh ura	Tridoshag hna
Kaiyadev	Madh	Lagh	Shee	Madh	Tridoshag
a	ura,	u,	ta	ura	hna
Nighantu	Amla	Snig			
(K.N.)		dha			
Raja	Madh	Lagh	Shee		Tridoshag
Nighantu	ura	u	ta		hna
(R.N.)					

Useful Parts – Fruit, Root bark, Fruit skin, Flower, Fruit Juice.

Table: Pharmacological Action of Dadima

			00108					
Sr	Action	D.	M.	K.	R.	В.	S.	P.
		N.	N.	N.	N.	N.	N.	N.
N			15	- /				
0.				1				
1.	Hrudya		,					
2.	Balya		(7)					
3.	Tarpan							
4.	Grahi		1					
5.	Krimighn							
	a							
6.	Medhya			1525			M	
7.	Shukrala							
8.	Tridosha		,					
	ghna					10	_	

(D.N.- Dhanwantari Nighantu, M.N.- Madanapal Nighantu, K.N.- Kaiyadeva Nighantu, R.N.- Raja Nighantu, B.N.- Bhavaprakash Nighantu, S.N.-Shaligram Nighantu, P.N. – Priyangu Nighantu)

Use of Dadima – Fruit Swaras - 20 to 50 ml **Table : Single use of Dadima**

Into	rnal Use		External Use
Inte	Thai Use		external Use
Kalpa	Vyadhi	Kalpa	Vyadhi
Dadim	Agnimandya	Dadima	Netra Roga
a	, Aruchi,	Swaras	_
Swaras	Amlapitta,		
	Pittajatisara,		
	Pravahika.		
	Gulma roga		
		Dadima	Netra Roga
		Kwath	
		Gandus	Pittaj
		h Yoga	Jwaramukhavairasyat
			a

Table: Ingredients in Kalpas

Table : Ingredients in Kaipas						
Intern	al Use	Externa	l Use			
Kalpa	Vyadhi	Kalpa	Vyadhi			
Kalyanaka Ghrita	Apamarak	Kavalagraha	Arochaka			
Shatyadi Churna	Pleehavrudd hi	Athajjanani	Shophaph ghna			
Dashmuli ghrita	Kaphaja gulma	Vidalaka yoga	Netraroga			
Chitrakadi Ghrita	Arsha	Dadimadi	Trushna			
Chavyadi ghrita	Gudanshabh rama	Mahalaxmina	Vatavyadh i			
Pippalyadi ghrita	Vibandha nashak	Kapityadi lepa	Trishna			
Hingwadi Gutika	Shool	Tilkadi kalka	Shwanada nsha			
Chitrakadi vati	Grahani	Neelikadi taila	Darnak			
Jeeraka Avaleha	Soma roga	Trushnanasha k yoga	Trushna			
Maharohita kam ghrita	Udara roga	Mulkadi lepa	Purani Granthi			
Dadimadi churna	Apatantraka	Manarasa	Parikartika			
Karvyadi gutika	Arochaka	Dhatakyadi taila	Yoniroga			
Dadima avaleha	Jwara	Trushnanasha k Panchamlaka	Trushna			
Dadimashta ka churna	Jwara	Dadhina swaras Siddha Taila	Karna roga			
Triphaladi mahasneha	Siragat vata	Murdha lepa	Trishna daha			
Hapushadi churna	Sarvagat vata					
<mark>Shatavari</mark> ghrita	Jasa					
	Kalpa Kalyanaka Ghrita Shatyadi Churna Dashmuli ghrita Chitrakadi Ghrita Chavyadi ghrita Pippalyadi ghrita Pippalyadi ghrita Hingwadi Gutika Chitrakadi vati Jeeraka Avaleha Maharohita kam ghrita Dadimadi churna Karvyadi gutika Dadima avaleha Triphaladi mahasneha Hapushadi churna Shatavari	Kalpa Vyadhi Kalyanaka Ghrita Shatyadi Pleehavrudd Churna hi Dashmuli ghrita gulma Chitrakadi Ghrita Chavyadi ghrita Fippalyadi ghrita Shool Gutika Chitrakadi Gutika Chitrakadi Grahani vati Jeeraka Avaleha Maharohita kam ghrita Dadimadi churna Karvyadi gutika Dadimadi avaleha Triphaladi mahasneha Hapushadi churna Siragat vata Sarvagat churna Shatavari Siragat vata Vyadhi Apamarak Apamarak Apamarak Arsha Gudanshabh rama Kudanshabh rama Soma roga Arsha Grahani Grahani Udara roga Apatantraka Apatantraka Apatantraka Siragat vata Siragat vata	Kalpa Vyadhi Kalpa Kalyanaka Ghrita Pleehavrudd Churna hi Dashmuli ghrita gulma yoga Chitrakadi Ghrita Pippalyadi ghrita rama rayan yoga Pippalyadi ghrita nashak lepa Hingwadi Gutika Chitrakadi vati Jeeraka Avaleha Maharohita kam ghrita Dadimadi churna Karvyadi gutika Chitrakadi Jeera Chitrakadi yoibandha Kapityadi lepa Tilkadi kalka Chitrakadi Grahani Neelikadi taila Jeeraka Avaleha Maharohita kam ghrita Dadimadi churna Karvyadi gutika Dadima avaleha Dadima avaleha Triphaladi mahasneha Karugat yota Dadimashta ka churna Shatavari Jasa			

Table : Chemical Constituent and Pharmacological action

i nui mucologicui uction				
Sr. No.	Plant components	Chemical Constituents	Pharmacological Action	
1.	Pomegranate Juice	Anthocyanins, Glucose, Ellagic acid, Gallic acid, Ascorbic acid	Anti hypertensive, Laxative and Diuretic, anti oxidant	
2.	Pomegranate seed	Punic acid, Ellagic acid,	Anti inflammatory,	

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other fatty acids	anti infertility, anti oxidant, anti
	cancer

Table: Modern Medicinal use

Table : Wodern Wedlemar use			
Internal Use	External Use		
Pomegranate seed juice -	Pomegranate juice- oral		
Anemia	hygiene		
Pomegranate juice-	Pomegranate and papaya-		
osteoarthritis	Glowing skin		
Pomegranate juice- Heart	Pomegranate Juice and		
disease	Green tea - Acne		
Pomegranate Juice-	Pomegranate Juice and		
Reducing Arterial Plaque	Lemon Juice — Sun tan		
Pomegranate juice-	Pomegranate Juice and		
Cancer	honey – Wrinkled skin		
Pomegranate juice-	Pomegranate seed oil – dry		
Alzheimer's disease	skin		
Pomegranate juice-	Pomegranate juice – Dry		
Erectile dysfunction	skin		
Pomegranate juice-	Pomegranate Juice-		
Leprosy	Gingivitis		
Pomegranate juice- Snake			
bite			
Pomegranate juice-Low			
weight premature infa <mark>n</mark> ts			

Material and Methods:

Case report – Patient name – X.Y.Z., Age – 35 year, Gender – female.

Complaints: Since 2 years

- 1. Pandutva
- 2. Rukshatva
- 3. Dourbalya
- 4. Bhrama
- 5. Arohana
- 6. Aruchi
- 7. Pindikodveshtan

Table 1: Symptoms on the basis of doshas

Dosha	Symptoms
1)Vata	Rkdhhatv Dourbalya, Pindikodveshtan
2)Pitta	Pandutva, Bhrama, Arohana, Aruchi
3)Kapha	-

Table 2 : On examination

Table 2. Off	CAMITIMATION
Examination	Observation
Pulse	72/min
B.P.	120/80 mm of Hg
R.S.	AEBE clear

CVS	S ₁ S ₂ Normal
CNS	Conscious and Oriented
P/A	Soft

Table 3: Ashtavidha Parikshan

Examination	Observation		
Nadi	Pitta Pradhan Kapha		
Jivha	Saam		
Mala	Samyak		
Mutra	Samyak		
Shabda	Prakrut		
Sparsha	Anushnasheeta		
Druk	Prakrut		
Akruti	Madhyama		

Table 4: Dashavidh Pariksha

Examination Observation			
Dushya	Rasa, Rakta		
Desha	S <mark>ad</mark> haran		
Bala	Madhyama		
Kala	Adana		
Anala	Agnimandya		
Prakruti	Pitta Pradhan Kapha		
Vaya	Madhyama		
Satva	Madhyama		
Satmya	Shadarasatmya		
Ahar	Mishra Aahara		

Hetu: Diwaswap since last 11 years

Past History: H/O Pulmonary Koch's 6 years back Received allopathic treatment for Pulmonary Koch's for 1 year.

• Investigations:

All routine investigations of blood and urine were done for all the cases. Along with this, few specific investigations were also performed.

E. Blood examinations
CBC with ESR
BSL (R)

F. Urine examination: routine and Microscopic

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G. Some specific Investigations

IgG for tuberculosis

Monteux test

Biopsy for fistulous tract on suspected case of tubercular fistula.

HIV for AIDS

H. Radiological investigations

X ray chest PA view

Disease History: Patient was suffering from symptoms pandutva, rukshatva,dourbalya, bhrama, arohana aruchi and Pindikodveshtan since 2 years. She was first diagnosed as Iron Deficiency Anemia and got allopathic treatment for last 2 years, but had no relief in symptoms. Thus Sypmptoms gradually increased. So patient approached for Ayurvedic treatment and after taking complete history, she diagnosed as Pittaj Pandu.

Treatment:

Table 5: Treatment **Dadima Swarasa**)-

Dose: 30 ml once a day
Kal: Morning (before food)
Route of Administration: Orally

Duration: 15 Days

Follow Up: at 7th and 15th day

Table 6: Observation and Results

Symptoms	Before treatmen t	At 7 th Da	At 15 th Da
		y	y
Panduta : In Twak, Nakha,	++++	++	+
Netravartma,Jivha,Hastpadtal	100	+//	alir
а			amil.
Rukshata : In Twak, Nakha,	++++	++	+
Netravartma,Jivha,Hastpadtal		+	
а			
Daurbalya	+++	++	+
Bhrama	+++	++	++
		+	
Ayasen Shvasa (Arohan)	++++	++	++
		+	
Aruchi	+++	++	++
Pindikodveshthan	++++	+	+

Discussion and Conclusion:

Dadima is used as a medicine from ancient times. It is best source of nutraceutical compounds. It has high source of Polyphenols which has antioxidant activity. It reduces the oxidative stress and destruction of RBCs. Due to this, it is mostly used in Nutritional Anemia.

The present case is 35 year old female having diagnosed as pandu Vyadhi on the basis of symptoms Pandutva, Rukshatva, Dourbalya, Bhrama, Arohana, Aruchi, Pindikodveshtan which were present since 2 years. All these symptoms were reduced due to medication of Dadima fruit Swaras. It is given in 30 ml quantity once in a day in morning for 15 days. The follow Up was taken at 7th and 15th day. Reduction in all the above symptoms was seen at the end of 15th day. As Dadima is Amla skanda dravya with Ushna Veerya and Amla Vipaka. Generally all amla dravyas are Pittavardhak. But Dadima is Pittashamak. So it is useful in Pandu vyadhi which is formed due to Pitta dosha. Dadima has tannins like %). emblicanin-B emblicanin-A (37 punigluconin and pedunculagin are reported to provide protection against oxygen radical included hemolysis. It is helpful for reduction in destruction of RBCs.

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