

DRUG REVIEW ON PANCHKSHIRI ACCORDING TO ANCIENT TEXT

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ABSTRACT

An *Ayurvedic* herb is a plant source which is used in the preparation of *Ayurvedic* medicine. *Panchkshiri* or *panchvalkal* is mentioned by the *Acharyas* in *Samhitas*. *Panchkshiri* has *kashaya* and sheet properties which are useful for *shotha*. for this study *panchvalkal* are chosen as all five *valkal* i.e. bark of trees were easily available and often used in practice. According to *Acharayas* it is mentioned for its *shotohara* action. *Shotha* is a diseases and sign mentioned by *Acharays*. in contemporary science it is correlate with inflammation. *Panchvalkal* is used as *vranapaha* and *vranropana*.

KEYWORDS: *Panchakshiri* *vrikha* *Panchvalkal*, *Shotha*, Inflammation.

INTRODUCTION

The word „Drug“ is derived from French word “Drogué” means „Dry herb“. A drug is defined as any substance that, when taken into living organism, may modify one or more of its functions or which is used for the purpose of diagnosis, prevention, relief or cure of a disease.^[1] It does not include health enhancer materials or contraceptives. In modern, World Health Organization (1966) has defined a drug as „any substance or product that is used or intended to be used to modify or explore physiological systems or pathological status for the benefit of the recipient“. The ideal drug cures a disease without creating any complication. General assessment or Survey of drug from the available literature is called as “Drug Review”.

Vedas are the oldest store house of wisdom and one can find many references indicating use of herbs, mineral and animal products to cure diseases. *Rigveda* is the oldest book in the

library of man, supplies curious information on the subject. From it we learn that the Indo Aryans used the *Soma* as a medicinal agent. Drug is said to be the most important part of treatment as:-

Means drug is an important for a physician as group of ministers or adviser for a king.^[2] *Ayurveda* „Drug“ is called as ‘**Aushadhi**’, one of the four fold constituent of “*Chikitsa chatushpada*” & “*Trisutra*” i.e. *Hetu*, *Linga* and *Aushadha*, derived from the word “*Osh*” means „*rasa*”. The great effect of any drug is abide of its therapeutic value which can be marked out by inspecting the synonyms of *Bhesaja* given by *Charaka* as *Chikitsa* (which alleviates disorders), *Vyadhihara* (destroyer of diseases), *Pathya* (beneficial for the channels), *Sadhana* (which is instrument for performance), *Aushadha* (which is prepared from herbs), *Prayaschita* (expiation), *Prashamanam* (pacification), *Prakritisthapanam* (which helps recovery) and *Hita* (wholesome). *Acharya Charaka* also said that “**Bheshaja**” is the substance which helps to bring back the vitiated *Doshas* to their normal level or that which counteracts the diseased conditions & brings back the body to a healthy state. But these substances should be used as per variations in conditions of morbidity, drug, place, time, strength, body, diet, suitability, mind, constitution and age which are even quite hard to grasp by a physician when considered as given by *Charaka* in *Sutrasthana*. *Acharya Kashyapa* in “*Visheshha Nirdeśheeya Adhyaya*”, advises the importance of rational use of appropriate medicine in treatment of diseases.^[3]

The consideration of drugs during line of treatment for particular ailment has great importance. Drugs and food, how so ever good in its own qualities, if used irrationally will not work. Over and above, it will create adverse results in the patients. Every herb can be used as medicine but the result depends upon their judicious use according to properties.

Which means there is no substance in the universe which cannot be used as a medicine.^[4] The action of any drug in the human body has been explained on the basis of five factors i.e. *Rasadi Panchak* which are mentioned as under:-

- Rasa* - Taste
- Guna* - Physical qualities
- Veerya* - Power to perform
- Vipaka* - Specific kind of transformation.
- Prabhava* - Which can't be explained

Panchakshiri vriksha: Historical background

Group of barks of five trees is known as “Panchavalkala” and these trees are called *Panchksheeri-vriksha*. There is no direct description of *Panchavalkala* in *Charka Samhita* but this group is used at various places like for the treatment of *Raktatisarjanya-gudapak* and *Trishna*.^[5]

In *Sushruta samhita* also, term *Panchavalkala* is not seen but *panchakashya* is used in *yonivyapad chikitsa* and *Dalhan* interpreted *panchakashya* as *Nyagrodha*, *Udumbara*, *Ashwatha*, *Plaksha* & *Gardbandh*.

The word “*Panchavalkala*” is used frequently in *Nighantus* like *Dhanvantri nighantu*^[6] *Madanpal nighantu*^[7], *Kaiyadev nighantu*^[8], *BhavPrakash*^[9] etc. In all these texts *Vata* (*Nyagrodha*), *Udumbara*, *Ashwatha*, *Parish* and *Plaksha* are accepted as “*Panchavalkala*” that is the bark of these five trees and same is used for the present study. These trees are called *Panchksheeri-vriksha*.

Table no. 1: Properties of *Panchavalkala* according to different *Ayurveda* texts.^[6-9]

<i>Nighantu</i>	<i>Guna</i>	<i>Rasa</i>	<i>Virya</i>	<i>Vipaka</i>	<i>Dosha Karma</i>
<i>Dhanvantari</i>	-	<i>Kashaya</i>	<i>Sheeta</i>	-	<i>Kapha har</i>
<i>Madan Pal</i>	<i>Grahi</i>	-	<i>Sheeta</i>	-	-
<i>Kaiyadev</i>	<i>Ruksha</i>	-	<i>Sheeta</i>	-	<i>Kapha, Pitta nashak</i>
<i>Bhav Prakash</i>	<i>Grahi</i>	<i>Kashaya</i>	<i>Sheeta</i>	-	-

Table no: 2: Action of *Panchavalkala* according to different *Ayurveda* texts.^[6-9]

Action	<i>Dhanvantri Nighantu (Mishrak varga 7/15)</i>	<i>Madanpal Nighantu (Vatadivarga 5/8-11)</i>	<i>Kaiyadev Nighantu (Aushadhi varga 438-439)</i>	<i>Bhavprakash Nighantu (Vatadi varga/17)</i>
<i>Shothahara</i>	+	+	+	+
<i>Stanya Vishodhana</i>	-	-	+	-
<i>Dahahara</i>	+	-	+	-
<i>Trishnahara</i>	+	-	-	-
<i>Varnya</i>	+	-	+	-
<i>Yonidosahara</i>	+	-	-	-
<i>Vrana nashaka</i>	-	+	+	+
<i>Visarpa nashaka</i>	-	+	+	+

Table no. 3: Properties of *Panchakshiri vriksha*.

Sr.No.	Name	Guna	Rasa	Virya	Vipaka	Doshkarma
1.	<i>Vata</i>	<i>Ruksha, Guru, Grahi, Stambhana</i>	<i>Kashaya, Madhura</i>	<i>Sheeta</i>	<i>Katu</i>	<i>Kapha- Pitta nashaka</i>
2.	<i>Udumber</i>	<i>Ruksha, Laghu</i>	<i>Kashaya</i>	<i>Sheeta</i>	<i>Katu</i>	<i>Kapha- Pitta, Raktavikara nashaka</i>
3.	<i>Ashwatha</i>	<i>Ruksha, Guru, Stambhana</i>	<i>Kashaya</i>	<i>Sheeta</i>	<i>Katu</i>	<i>Raktapitta, Kapha nashaka</i>
4.	<i>Plaksha</i>	<i>Ruksha, Guru</i>	<i>Kashaya, Katu</i>	<i>Sheeta</i>	<i>Katu</i>	<i>Pitta, Rakta, Kapha doshahara</i>
5.	<i>Parish</i>	<i>Ruksha, Guru</i>	<i>Kashaya</i>	<i>Sheeta</i>	<i>Katu</i>	<i>Kapha- Pitta shamaka</i>
6.	<i>Panchvalkala</i>	<i>Ruksha, Grahi</i>	<i>Kashaya</i>	<i>Sheeta</i>	<i>Katu</i>	<i>Kapha-Pitta nashaka</i>

Vata

Latin Name : *Ficus bengalensis* Linn.

Family : Moraceae

Gana (group)

Charaka : *Mutrasangrahaniya, Kashayaskandha.*

Sushruta : *Nyagrodhadi*

Bhav Prakasha: *Kshirivriksha, Panchavalkala.*

Classical Name : *Vata (Nyagrodha)*

Vernacular name : English - Banyan tree; Hindi - Bargad, Barh; Bengali –

Vata; Marathi – Vad; Kannad – Ala; Malyalam - Peral, Vaturksam; Tamil -Alamaran, Peral; Telugu – Peddamarri.

Distribution: Throughout India.

Parts used: Aerial root, bark, leaves, buds, latex.

Table no. 4: Properties of *Vata* according to different *Ayurvedic* texts.^[10-14]

Text	Rasa	Virya	Vipaka	Guna	Dosha Karma
<i>Dhanvantari</i>	-	<i>Sheeta</i>	-	<i>Ruksha,</i>	-
<i>Nighantu</i>				<i>Stambhana</i>	
<i>Raj Nighantu</i>	<i>Kashaya,</i>	<i>Sheeta</i>	-	-	<i>Kapha, Pitta</i>
	<i>Madhura</i>				<i>Vikar hara</i>
<i>Madan Pal</i>	-	<i>Sheeta</i>	-	<i>Guru, Grahi</i>	<i>Kapha, Pitta</i>
<i>Nighantu</i>					<i>Nashak</i>

<i>Kaiyadeva</i>	<i>Kashaya</i>	<i>Sheeta</i>	-	<i>Ruksha, Grahi,</i>	<i>Kapha, Pitta</i>
<i>Nighantu</i>				<i>Guru</i>	<i>Doshahara</i>
<i>Bhavpraksh</i>	<i>Kashaya</i>	<i>Sheeta</i>	-	<i>Guru, Grahi</i>	<i>Kapha, Pitta</i>
<i>Nighantu</i>					<i>Doshahara</i>

Table no. 5: Action of Vata.^[10-14]

Text	<i>Dhanvantari Nighantu (Amradi varga /69-70)</i>	<i>Raj Nighantu (Amradi Varga /116-118)</i>	<i>MadanPal Nighant U (Vatadi varga/5)</i>	<i>Kaiyadeva Nighantu (Ausadhi Varga /422-423)</i>	<i>Bhav Prakash (Vatadi varga/1-2)</i>
<i>Varnya</i>	-	-	-	+	+
<i>Vrana doshahar</i>	-	+	+	+	+
<i>Visarpaghna</i>	-	-	-	+	+
<i>Yonidosha har</i>	-	-	-	+	+
<i>Jwar Nashak</i>	-	+	-	-	+
<i>Daha Nashak</i>	-	+	-	-	+
<i>Trishna Nashak</i>	+	+	-	-	-
<i>Shothahar</i>	-	+	-	-	-
<i>Chardi Nashak</i>	+	-	-	-	-

- **Properties and action**^[14]

Karma

Mutrasangrahaniya-pramehaghna Vedanasthapana, Vranaropana, Raktarodhaka, Shothahara, Stambhana-grahi, Raktashodhaka-raktapittahara, Garbhashayashothahara, Yonidosahara, Garbhashthapaniya, Pumsavanakara, Sukrastambhana, Dahaprasamana, Varnya.

IN MODERN LITERATURE (*Ficus bengalensis*)

Various parts including stem bark of *F. bengalensis* Linn. is also used as astringent, haemostatic, anti-inflammatory and antiseptics.^[15]

Chemical constituents

Leucoanthocynin, two flavonoid compounds, viz., 5,7-dimethyl ether of leucopelargonidin-3-0-x-L-rhamnoside and 5,3-dimethyl ether of leucocynidin-3-0-x-D-galactosyl cellobiside; three methyl ethers of leucoanthocyanins-delphinidin-3-0-x-L-rhamnoside(I), pelargonidin-3-0-x-L-rhamnoside, B-sitosterol-X-D-glucoside and meso-inositol(stem bark); tiglic acid ester of taraxasterol; quercetin-3-galactoside, rutin, friedelin, surface hydrocarbons(leaves). Bark and shoots contain 10% tannin. Phytochemical investigation of various extracts of *F. benghalensis* Linn. Stem bark indicated the presence of alkaloids, flavonoids, steroids,

phenolic compounds and tannins.^[16]

UDUMBARA

Latin Name : Ficus recimosa Roxb.

Family : Moraceae

Gana (Group) :

Charaka : Mutrasangrahaniya, Kashaya skandha

Sushruta : Nyagrodhadi gana, Kashayarasa predominant fruits

Bhavprakasha : Kshirivriksha, Panchavalkala

Classical Name : Udumbara

Vernacular Names

English - Cluster fig, Country fig; Hindi - Gular, Umaradi, Dimer; Bengali -Yagyadumbara, Dmur; Marathi – Umbar; Kannad – Ati; Malyalam – Ati; Tamil – Attimaram; Telugu - Attichettu, Raiga.

Table no. 6: Properties of Udumbara according to different Ayurvedic texts.^[17-21]

Text	Rasa	Virya	Vipaka	Guna	Dosha-karma
Dhanvantari Nighantu	Kashaya (Apakva phala), Madhura	Sheeta	-	-	Pitta-Raktaghna
Raj Nighantu	Kashaya, (Apakva phala), Madhura	Sheeta	-	-	Rakta, Pitta Nashak
Madan Pal Nighantu	-	Sheeta	-	Guru	Kapha, Pitta, Rakta Vikar
Kaiyadeva Nighantu	Kashaya, Madhura	Sheeta	-	Ruksha,	
Bhavprakash Nighantu	Kashaya, Madhura	Sheeta	-	Guru, ruksha	Kapha, Pitta, raktavikar

Table no. 7: Showing karmas according to different acharyas.

Text	Dhanvantari nighantu	Raj Nighantu (Amradi varga/ 126-129)	Madan Pal Nighantu (Vatadi varga/5)	Kaiyadeva Nighantu (Ausadhi Varga/424-430)	Bhav Prakash (Vatadi varga/ 8-9)
Varnya	-	-	-	+	+
Vrana Shodhaka	-	-	-	-	+
Ropana	-	+	+	+	+
Murcha nashak	+	-	+	-	-
Daha nashak	+	+	-	-	-

Trishna nashak	+	-	+	-	-
Krimi Krata	-	-	-	-	+

Properties and action^[17]

Karma

Mutrasangrahaniya, Dahaprasamana, Garbhasaya shothahara, Shukrastambhana Raktapittashamaka, Garbhaposhaka Krmikaraka, Shothahara- vedanasthapana Varriya, Vranaropana.

Roghghnata

Vranashopha, Mukhapak, Galshopha, Raktapravahika, Raktatisar, Grahani, Bhasmak, Kamala, Shwetapradar, Pramaeha, Jwar.

• IN MODERN LITERATURE (*Ficus racimosa*)^[22]

Chemical Constituents

Bark:-Tetracyclic triterpene – glauanol acetate, two leucoanthocyanins – leuccynidin– 3-0-B-D glucopyranoside, leucopelargonidin, its acetate, stigmasterol, glycoside; glauanol, hetriacolate, taraxasterol, glucose, lupel acetate.

ASHWATHA

Latin Name : *Ficus religiosa* Linn.

Family : Moraceae

Gana (group) :

Charaka : *Mutrasangrahaniya, Kashaya skandha*

Sushruta : *Nyagrodhadi*

Bhav Prakasha : *Kshirivriksha, Panchavalkala*

Classical Name : *Ashwattha*

Vernacular Name

English: Peepal tree, Sacred fig, Bodhi tree; Hindi : Pipal, Pipar; Bengali : Aswat, Asud, Ashwattha; Marathi: Ashvatha, Pimpala; Kannad: Aswaththa; Malyalam : Arayal; Tamil : Asvattam, Arasu; Telgu: Asaddhamu

Distribution: Throughout India, Sub-himalayan forests.

Parts used: Bark, leaves, fruits, bud, seed, latex.

Table no. 8: Properties of *Ashwatha* according to different *ayurvedic texts*.^[21-27]

Text	Rasa	Virya	Vipaka	Guna	Dosha Karma
<i>Dhanvantari</i>	Kashaya	Sheeta	-	Ruksha,	Rakta- Pitta,
<i>Nighantu</i>				Stambhana	Kapha Nashak
<i>Raj</i>	Madhura	Sheeta	-	-	Kapha, Pitta
<i>Nighantu</i>	Kashaya				Nashak
<i>MadanPalNighantu</i>	-	Sheeta	-	-	Pitta, KaphaNashak
<i>KaiyadevaNighantu</i>	Kashaya	Sheeta	-	Ruksha, Guru	Pitta, Kapha Doshahara
<i>Bhavprakash Nighantu</i>	Kashaya	Sheeta	-	Ruksha, Guru	Pitta, Kapha Doshahara

Table no. 9: Action of *Ashwatha* according to different *ayurvedic texts*.^[21-27]

Text	<i>Dhanvantari Nighantu (Amradi varga /71-73)</i>	<i>Raj Nighantu (Amradi varga /112-115)</i>	<i>Madan Pal Nighantu (Vatadi Varga 5/13)</i>	<i>Kaiyadeva Nighantu (Ausadhi Varga /431-432)</i>	<i>Bhav Prakash (Vatadi varga/ 3)</i>
<i>Varnya</i>	-	-	-	-	+
<i>Trishna nashak</i>	+	-	-	-	-
<i>Chardi nashak</i>	+	-	-	-	-
<i>Murcha nashak</i>	+	-	-	-	-
<i>Daha nashak</i>	-	+	-	-	-
<i>Raktavikar nashak</i>	-	+	+	+	+
<i>Vrana doshahar</i>	-	-	+	-	+
<i>Yoni</i>	-	+	-	+	+

Properties and Action^[27]***Karma***

Varnya, Vranaropana, Vedana sthapana, Shothahara, Raktashoadhak, Raktpittashamak, Mootrasangraheeya, Stambhana, Kaphaghna (stem bark); Snehana, Anulomana, Mridurechana, Shwasahara (fruit), Garbhasthapana, Vajikarana (fruit, root, bark).

Roghghnata

Vranavikara (leafbud), *Vedana*, *Shoph*, *Raktrava* (latex); *Vrana*, *Vranashopha*, *Bhagandara*, *Mukhapaka*, *Kasa*, *Prameha* (stem bark); *UdarShoola*, *Vibandha*, *Shwasa*, *Prameha*, *Raktpitta* (fruit).

Action on *Vrana*: *Vedana sthapana*, *Shothahara*, *Raktpittashamak*.

IN MODERN LITERATURE (*F. religiosa*)**Chemical constituents**

B-sitosteryl-D-glucoside(bark); Vitamin K, n-octacosanol, methyloleanolate, lanosterol, stigmasterol, lupen-3-one and phytosterolin, bergaoten bergaptol and 4% of tannin(stem bark); protein and amino acid(leaves). Preliminary phytochemical screening of *F. religiosa* barks, showed the presence tannins, saponins, flavonoids, steroids, terpenoids and cardiac glycosides The barks of *F. religiosa* showed the presence of bergapten, bergaptol, lanosterol, β -sitosterol, stigmasterol, lupen-3-one, β -sitosterol-d-glucoside (phytosterolin), vitamin k1. The bark also contains tannin, wax, saponin, β -sitosterol, leucocyanidin-3-O- β -D-glucopyranoside, leucopelargonidin-3-O- β -D-glucopyranoside, leucopelargonidin-3-O- α -L-rhamnopyranoside, lupeol, ceryl behenate, lupeol acetate, α - amyryn acetate, leucoanthocyanidin and leucoanthocyanin.^[22]

PLAKSHA

Latin Name : *Ficus lacor Buch-Ham.*

Family : Moraceae

Gana (group) :

Charaka : *Mutrasangrahaniya, Kashayaskandha*

Sushruta : *Nyagrodhadi gana*

Bhav Prakasha : *Kshirivriksha, Panchavalkala.*

Classical Name : *Plaksha*

Vernacular names

Hindi : Pakhar, Pakri, Pilakhan; *Bengali* –Pakurh; *Marathi* : Vassari; *Kannad* : Vassari, Jubbi; *Malayalam* : Bela, Bakri, Chakkila, Chela, Itti; *Tamil* : Jovi, Kallal, Kurugatti, Sivi; *Telgu*: Badijuvi, Juvvi.

Parts used: Bark, leaves, latex.

Table no. 10: Properties of Plaksha according to different ayurvedic texts.^[28-33]

Text	Rasa	Guna	Virya	Vipaka	Dosha Karma
<i>Dhanvantari Nighantu</i>	<i>Katu, Kashaya</i>	-	<i>Sheeta</i>	-	<i>Rakta Pitta nashak</i>
<i>Raj Nighantu</i>	<i>Katu, Kashaya</i>	-	<i>Sheeta</i>	-	<i>Rakta dosha har</i>
<i>Madan Pal Nighantu</i>	-	-	<i>Sheeta</i>	-	<i>Kapha, Pitta nashak</i>

<i>Kaiyadeva Nighantu</i>	<i>Kashaya</i>	-	<i>Sheeta</i>	-	<i>Kapha, Pittahar, Rakta, Pittahar</i>
<i>Bhavprakash Nighantu</i>	<i>Kashaya</i>	-	<i>Sheeta</i>	-	<i>Pitta, Rakta Kapha, doshahara</i>

Table no. 11: Action of Plaksha according to different ayurvedic texts.^[28-33]

Text	<i>Dhanvantari Nighantu (Amradi varga/69-70)</i>	<i>Raj Nighantu (Amradi varga/116-118)</i>	<i>Madan Pal Nighantu (Vatadi varga/5)</i>	<i>Kaiyadeva Nighantu (Ausadhi Varga/422-423)</i>	<i>Bhav Prakash (Vatadi varga/ 1-2)</i>
<i>Vrana har</i>	-	-	+	+	+
<i>Yoni roga Har</i>	-	-	-	+	+
<i>Shotha har</i>	-	-	+	+	+
<i>Dah har</i>	-	-	-	+	+
<i>Visarpa Nashak</i>	-	-	+	+	+
<i>Rakta vicar Har</i>	-	+	-	+	-
<i>Murcha Nashak</i>	+	+	-	+	-
<i>Bhrama har</i>	+	+	-	-	-
<i>Pralapa har</i>	+	+	-	-	-

- **Properties and action**^[32]

Karma: *Mutrasangrahaniya, Stambhana, Raktashothahara, Raktapittahara-raktashodhaka, Yonidosahara, Dahaprasamana, Shothahara, Vranaropana.*

Roghghnata: *Vranashopha, Visarpa, Vrana, Atisar, Raktapradar, Prameha, Yonidosha, Murcha, Pralap, Bhrama, Pravahika.*

- **In Modern Literature: (Ficus Lacor)**^[38] **Chemical components**

Stem bark – Sterol, Sugar, Tannin, Alkaloid and Saponin, Stem bark yields acetates of long-chain alcohols, N-tetracosyl acetate, N-hexacosyl acetate, beta-sitosterol, lanosterol, caffeic acid, bergenin.

Biological uses: Bark antileucorrhoeic, also used in ulcer.

Properties and uses

Benzene extract of stem bark exhibited antibacterial property against *S. aureus* and *E. coli*. All parts are acrid, pungent, cooling and useful in diseases of the blood and vagina, ulcer, burning sensation, biliousness, inflammation, leprosy, hallucination, loss of consciousness. A decoction is employed as a gargle in salivation, as a wash for ulcers and leucorrhoea. The seeds are useful in bronchitis, scabies and boils.

PARISH**Latin Name** : *Thespesia populenea* Linn.**Family** : Malvaceae**Guna (group)** :*Charaka* : *Mutrasaiigrahaniya, Kasayaskandha**Sushruta* : *Nyagrodhadi**Bhav Prakasha* : *Kshirivriksha, Panchavalkala.***Classical Name** : *Parish***Vernacular name**

English - Portia tree, Indian tulip tree, Umbrella tree; Hindi - Paras pipal, Parsipu; Bengali - Dumbra, Gajsundi; Marathi - Parasacha Jhad; Kannad - Arasi, Huvarase, Kandarola; Malayalam – Puvarasu; Tamil - Puvarasamkalla, Chilanti; Telgu - Gangarvi.

Parts used: Bark root, fruit, bark, leaves.**Table no. 12: Properties of *Parish* according to different *ayurvedic* texts.**^[34-38]

Text	Rasa	Guna	Virya	Vipaka	Dosha
					Karma
<i>Dhanvantari Nighantu</i>	-	-	-	-	-
<i>Raj Nighantu</i>	-	-	-	-	-
<i>Madan Pal Nighantu</i>	-	<i>Snigdha</i>	-	-	<i>Kapha-prada</i>
<i>Kaiyadeva Nighantu</i>	<i>Amla, Madhur(Phala) Kashaya(Mula) Madhur(majja)</i>	<i>Snigdha</i>	-	-	<i>Kapha-prada</i>
<i>Bhavprakash Nighantu</i>	<i>Kashaya, Amla(Phala) Madhur(Mula) Kashaya(Majja)</i>	<i>Snigdha</i>	-	-	<i>Kapha-prada</i>

Table no. 13: Action of *Parish* according to text.^[34-38]

Text	<i>Dhanvantari Nighantu (Amaradi varga/86-88)</i>	<i>Raj Nighantu (Amaradi varga/ 140-141)</i>	<i>Madan Pal Nighantu (Vatadi varga/5/29-31)</i>	<i>Kaiyadeva Nighantu (Ausadhi Varga/427-428)</i>	<i>Bhav Prakash (Vatadi varga/ 6-7)</i>
<i>Vrishya</i>	-	-	+	-	-
<i>Krimiprada</i>	-	-	+	+	+
<i>Shukraprada</i>	-	-	-	+	+

Properties and action^[38]

Karma: *Mutrasangrahaniya-pramehaghna.*

Therapeutic uses^[38]

The drug Parish is *Mutrasangrahaniya* and used in *prameha* and other urinary disorders. The bark, leaves, flowers and fruits are reported to be useful in cutaneous affections such as scabies, psoriasis, ringworm, guineaworms and eczema, being *kusthaghna* and *kandughna*. It is topically applied over skin in condition of ulcer, scabies, itching, eczematous affections and swelling. The extracts of leaves are active against *Micrococcus pyogenes*, *S.aureus* and *E. coli*. The root is reported to be toxic. The seeds possess purgative properties. The plant has been shown to be effective in malaria. The pollen may cause allergy. The astringent bark, roots and fruits are reported to be useful in dysentery, haemorrhoids; and the mashed bark is employed as a poultice or hot fomentation for wounds.

- **in Modern Literature:** (*T.populenea*)^[39]

Chemical Constituents

Flowers gave populnetin, herbacetin, populneol, quercetin and its glycosides, kaempferol and its glycosides, rutin, gossypol, P-sitosero and its glycosides, nonacosane, lupenone, myricyl-alcohol, lupeol and gossypetin. The sample of fully ripe seeds (Madias) yields 20% of a dark red-coloured fatty oil. The unsaponifiable matter is reported to contain ceryl alcohol and sitoslerol. Furthermore phytochemical studies indicated that the ethanolic extract of bark contains alkaloids, carbohydrates, protein, tannins, phenols, flavonoids, gums and mucilage, saponins and terpenes.

Biological Activity

Fruit antiviral, spasmolytic, anticancer, antifertility, antimalarial and antitumour, due to gossypol decreased sperm count in men.

Preparation & Uses: The plant is astringent, acrid, cooling, depurative, anti-inflammatory, haemostatic, vulnerary, alterant, antidiarrhoeal and antibacterial. It is useful in dermatopathy such as scabies, psoriasis, ringworm and guineaworm, leprosy, urethritis, gonorrhoea, haemorrhoids, haemorrhages, haemoptysis, inflammation, wounds, ulcers, diarrhoea, dysentety, cholera, diabetes, ascites, warts, cough and asthma. The bark and fruit possess more curative properties (*Indian med. Plant, vol. III*). The ethanolic extract of *Thespesia populnea* bark (TPE) was investigated for anti-inflammatory and analgesic activity at the

doses (p.o.) of 100, 200 and 400 mg/kg body weight. For evaluation of inflammation carrageenan-, histamine- and serotonin-induced paw edema served as acute models and formaldehyde induced arthritis served as a chronic model in rats. The higher doses of TPE (200 and 400 mg/ kg, p.o.) were inhibiting carrageenan, histamine and serotonin-induced paw edema as well as formaldehyde-induced arthritis successfully. From acute oral toxicity studies (OECD423 guidelines), no mortality was observed even at highest dose of TPE (2000 mg/kg, p.o.).

➤ *Panchavalkal* is routinely used plant in *Ayurvedic* medicine for local and systemic also. It is one of the most versatile plants having a wide spectrum of medicinal activities. The review shows the *Panchavalkal* has presence of tannins, alkaloids, flavonoids, saponin glycosides; steroids, reducing sugars, and volatile oil. On the basis of this it has antimicrobial activity so used in the gynaecological disorders like leucorrhoea, cervicitis, valvovaginitis and prophylaxis in gynaecological surgeries in the form douche, *Varti*, ointment and capsules. Hand wash gel of *Panchavalkal* can be used for antiseptic, *Kwath* for pre- operative skin preparation in *shalya* discipline. The *Kwatha* and ointment is used in cases of non-healing ulcers as *Panchavalkal* has anti-inflammatory and wound healing activity. All above ingredients of *Panchavalkal* tail shows Anti-inflammatory, anti-bacterial, anti-oxidant and free radical scavenging.

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