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PIPPALIMULADI AGADA - A REVIEW

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ABSTRACT

Background- *Agadatantra is included under Ashtangas that not only deals with diagnosis of poisons bites and stings but also deals with different types of toxicity such as concotent (Gara Visha) and Cumulitive toxicity (Dushi Visha) .Dushi Visha is one among the widely discussed topics in Agadatantra. All the brihatayess and in Malayalam text books deals this topic detailly. Many Agada Yogas are described by acharyas for managing Dooshi visha .*

Introduction- *Pippalimuladi agada is one of the Agada Yoga detailed in the book Kriyakoumudi in relation to dushi visha. Kriyakoumudi is one of the classic literature accessible for Agadatantra. This book focuses exclusively on different types of poisons and their traditional treatments. We discovered various Agada Yogas in this book that Brihatrayees did not address.*

Objective

1.To study the pharmacological and therapeutic action of pippalimuladi agada.

2. To study the pharmacological and therapeutic action of each ingredient of pippalimuladi agada.

Materials and methods- *The whole study is based on literary review collected from AyurvedSamhitas and Kriyakoumudi.*

Conclusion-*The components in pippalimuladi agada have anti-inflammatory, antifungal, antimicrobial, antioxidant, and diuretic properties. This review article will discuss the pharmacological and therapeutic effects of pippalimuladi agada, as well as the effects of each ingredient.*

KEYWORD: *pippalimuladi agada, Kriyakoumudi, Dooshi Visha*

INTRODUCTION

Agadatantra is an *Ashtanga* practice that deals not only with the diagnosis and treatment of poison bites and stings, but also deals with various types of toxicity such as concatenate (*Gara Visha*) and cumulative toxicity (*Dushi Visha*).*Dushi Visha* is one of the most frequently debated issues in *Agadatantra*.

The term *Dushi Visha* is a combination of two different words that are, '*Dushi'+ 'Visha'*. '*Dushi'* means latent, vitiated. *Visha* means poison.[1]. *Acharya susrutha* describes *dushi visha* as a slow-acting poison that accumulates in our body, due to its low potency (because it does not have all ten characteristics of poison) it does not produce acute ill effects but produces chronic illness due to long term exposure to the poison.[2]

The main causative factors for *Dushi Visha* mentioned by *Acharya Susrutha* are *Desha* (habitat), *Kaala* (season), *Anna* (food) and *Diwaswapna* (day sleep).[3] The main symptoms of *dushi visha* includes *bhinnapurisha* (loose stools) *varna* (loss of complexion), *mugha vaigandhya* (halitosis), *mugha vairasyam* (tastelessness), *pibasa* (thirst), *murcha* (stupor), *vamanam* (vomiting), *gadgatavak* (problems with speech) and symptoms of *dushi udara* [4]. If the *dushi visha* localize in *amashaya* it produces *kapha* and *vata rogas*. If it is localized in *pakvashaya* of *anila* and *pitha rogas* will be manifested [5].

In the context of *dushi visha*, different *Agada Yogas* are outlined, which can be employed for treatment. *Pippalimuladi agada* is one of the formulations described in the textbook *Kriya Kaumudi* by Sri Dr. Trikkariyoor Sivarama Iyyer. This article is baised on the textual review, and descriptions of *pippalimuladi agada* were obtained from the text *kriya Kaumudi* [6].

The ingredients of *pippalimuladi agada* as described in *Kriyakoumud*i along with *Rasapanchaka* (table no 1).

Objective

1. 1.To study the pharmacological and therapeutic action of *pippalimuladi agada.*
2. To study the pharmacological and therapeutic action of each ingredient of *pippalimuladi agada.*

METHODE OF PREPERATION [7]

All the Twelve *kashta dravyas (pippalimula, kushta, Pippali, Mayoorashikha, Gaja Pippali, Jatamansi, Gokshura, Yashtimadhu, Syonaka, Chandana, Tagara)* will be taken individually and made into course powered and sieved. *Shodana* of *gairika* will be done by *bhargana* with *go gritha* [8]. All the ingredients will be mixed well in *jala* and made into *gutika* of *kalaya Pramana*

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Table 1- *Rasapanchaka* of ingredients of *pippalimuladi agada* [9,10,11,12,13,14,15,16,17,18,19,20,21,]

Sl.no	*Dravya*	*Rasa*	*Guna*	*Veerya*	*Vipaka*	*Karma*	*Doshaghnata*
1	*Pippali mula*	*Katu*	*Tikshana Laghu Snigdha*	*Anushna*	*Madura*	*Dipana Pachana Pliharogahara*	*KaphaVata hara*
2	*Kushta*	*Tikta katu madhura*	*Laghu ruksha Tikshna*	*Ushna*	*Katu*	*Vishaghna Kushtaghna Shothahara*	*Kaphavata hara*
3	*Mayoorashikha*	*Tikta Kaşāya Madhura*	*Laghu Rūkşa*	*Šīta*	*Kaṭu*	*Vişaghna*	*Kapha-pitta hara*
4	*Pippali*	*Tikta katu madhura*	*Laghu ruksha Tikshna*	*ushna*	*Katu*	*Dipana Rasayana Recaka Jwarahara Kustahahara Šulanāśaka*	*Kaphavata hara*
5	*Gaja Pippali*	*Katu*	*Laghu Rooksha Teekshna*	*Ushna*	*katu*	*Mala vishoshaka*	*Kapha hara*
6	*Lodhra*	*Kashaya tikta*	*Laghu ruksha*	*Sheeta*	*Katu*	*Vishaghna, Sheetagrahi Chakshushya Shothahara Jwarahara*	*Pittakapha hara*
7	*Jatamamsi*	*Tiktha Kashya Madhura*	*Laghu Snigdha*	*Sheeta*	*katu*	*Vişaghna, Dahahara Kuşthahara Visarpanut Twachya,*	*Tridosha hara*
8	*Gokshura*	*Madura*	*Guru snigdha*	*Sheeta*	*Madura*	*Shothahara Mutrala Bastishodaka Balya, Hrudya*	*Tridosha hara*
9	*Yashti madhu*	*Madura*	*Guru snigdha*	*Sheeta*	*Madura*	*Vishaghna Balya Chakshushya Varnya Vranahara*	*Vatapitta hara*
10	*Gairika*	*Madhurakas haya*	*Snigdha vishada*	*Sheeta*	*Madura*	*Vishaghna Dahaghna Rakta stambhaka Kandughna*	*Pittakapha hara*
11	*Syonaka*	*Tikta kashaya katu madhura*	*Laghu ruksha*	*Ushna*	*Katu*	*Shothahara Vranahara Hrudya Jwaraghna Grahi*	*Kaphavata hara*
12	*Chandana*	*Tikta madhura*	*Ruksha laghu*	*Sheeta*	*katu*	*Vishaghna Hrudya Vrushya Krimighna Dahahara Jwaraghna*	*Pittakapha hara*
13	*Tagara*	*Tikta, katu, kashaya*	*Laghu, snigdha*	*Usha*	*Katu*	*Vishaghna Kushtaghna Shophahara Balya Jwaraghna*	*Kaphavata hara*

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Table 2 – Drug review [22,23,24,25,26,27,28,29,30,31,32,33,34]

Sl.no	*Dravya*	*Latin name*	*Family*	*Chemical Constituents*	*Pharmacological action*	*Therapeutic action*
1	*Pippali mula*	*Piper longum Lin.*	piperaceae	Piperine Piperlongumine Piperlonguminine	Stimulant	*Agnimandhya* *Krimi*
2	*Kushta*	*Saussurea lappa C.B. Clarke.*	Asteraceae	Kushtin, Inulin-betulin, Friedelein, Sigmasteral Saussureal Costunolide	Anti-inflammatory Antibacterial Antiseptic Spasmolytic Hypolipidimic	*Visha* *Kushta* *Dadru* *Vataraktha* *Sotha*
3	*Mayoorashikha*	*Actinopteris Dichotoma*	Polypodiaceae	Rutin, hentricacontane, B- sitosterol-D (+)-glucoside	Haemostatic	*Visha*
4	*Pippali*	*Piper longum Lin.*	piperaceae	Piperin Piplartine Pipernonaline piperundecalidine	Stimulant Diuretic Digestant Carminative	*Udara* *Agnimandhya* *Jwara* *Kushta*
5	*Gaja Pippali*	*Scindapsus officinalis (Roxb.)*	Araceae	Scindapsin A and B	Appetizer Carminative	*Agnimandhya*
6	*Lodhra*	*Symplocos racemosa Roxb.*	Symplocaceae	Triterpenoid, saponin beta-sitosterol, flavonol, glycoside, Rhamnetin	Haemostatic, Anti -inflammatory Astringent Coagulant	*Vishavikara* *Sotha* *Raktha pitha* *Trishna* *Jwara*
7	*Jatamamsi*	*Nardostachys jatamansi DC.*	Valerinaceae	Jatamansic acid aristolene calarene jatamansin, oroselol, orselone, dihydrojatamansin, angelic acid, jatamansinol	Coolant Analgesic Carminative Anti septic Sedative	*Vishavikara* *Manasa vikara* *Daha* *Twak vikara*
8	*Gokshura*	*Tribulus terrestris Lin.*	Zygophyllaceae	Diosgenin Gitogenin Chlorogenic Harmane, Harmine Kaemperal Quercitin, Rutin	Diuretic Tonic Demulcent	*Sotha* *Hridroga* *Mutakrcchara* *Asmari*
9	*Yashti madhu*	*Glycyrrhiza glabra Linn*	Papillionaceae	Glycyrrhizine Glyzaglabrin Quercitin Glycyrrhizic acid Liqcomarin	Anti-oxidant Anti-inflammatory Anti-microbial Antipyretic spasmolytic	*Vishavikara* *Trishna* *Daha* *Vaivarnya* *Sirasula*
10	*Gairika*	*Red ochre*	-	-	-	*Visha* *Jwara* *Raktapradara* *Daha* *Vrana* *Kushta* *Kandu*
11	*Syonaka*	*Oroxylum indicum Lin*	Bignonaceae	Chrysin Baicalein Luteolin OroxylinA Scutellarein Myristic Palmitic Stearic	Anti inflammatory Anti-bacterial Diaphoretic	*Agnimandhya* *Ajirna* *Aruchi* *Sotha*

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				Arginine, Aspartic		
12	*Chandana*	*Santalum album Linn*	Santalaceae	Santene, Alphasantalol, Beta santalol, Santenone, Teresantol, Santalone, Santalene	Antibacterial Blood purifier Analgesic Cooling Diuretic	*Visharoga Rakthapitta Kushta Vrana vikara jwara*
13	*Tagara*	*Valeriana wallichii DC*	Valerianaceae	Atinidine Carotene Nardol Valeranol Virolin Hexacosmic acid Jatamansic acid	Analgesic anit pyretic Anti-bacterial Diuretic Anti spasmodic	*Visha Shula Raktha dosha Unmada*

Diagram 1: Analysis of *rasa* of ingredients of pippalimuladi *agada*

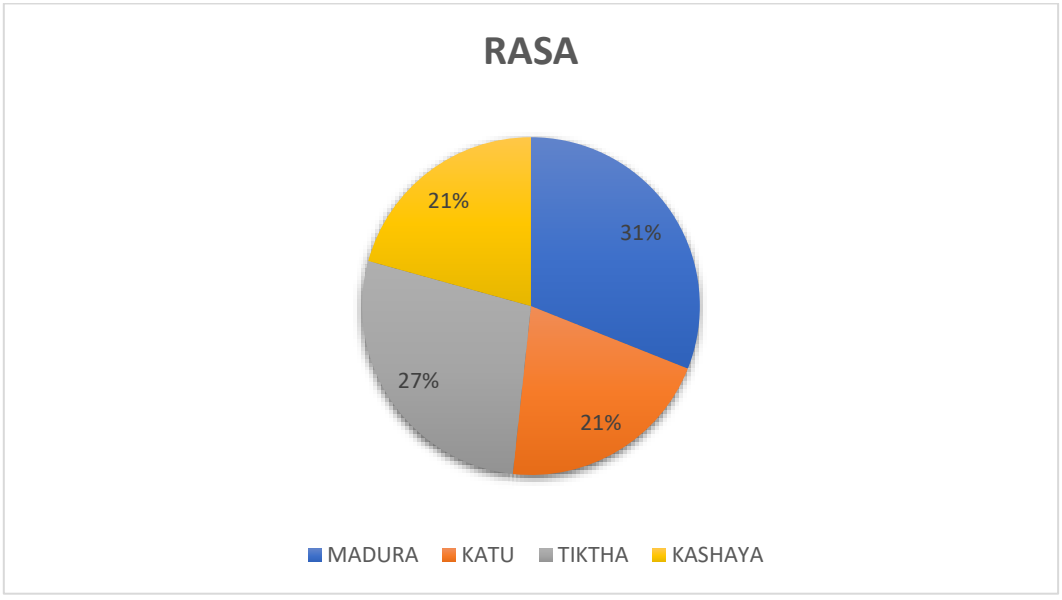


Diagram 2: Analysis of *guna* of ingredients of pippalimuladi *agada*

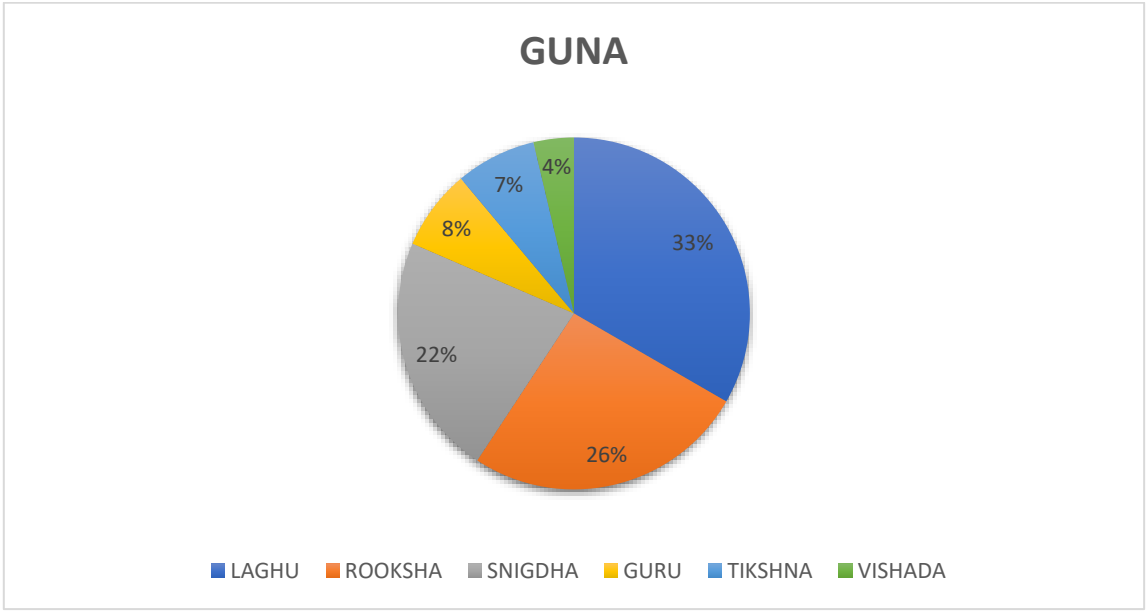


Diagram 3: Analysis of *virya* of ingredients of pippalimuladi *agada*

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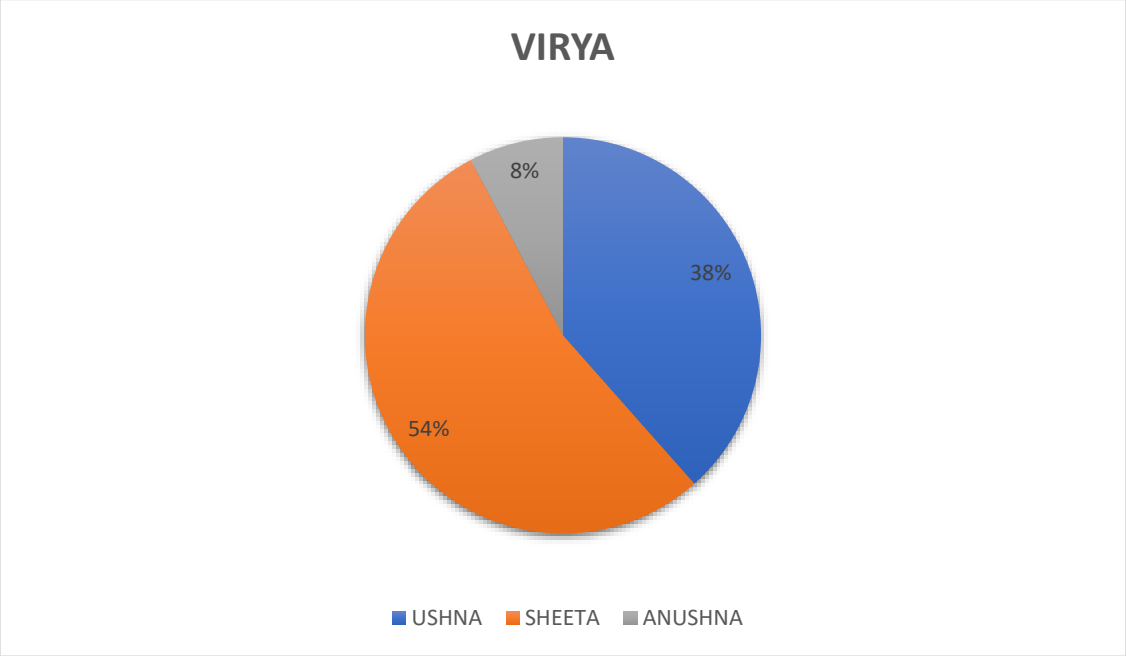
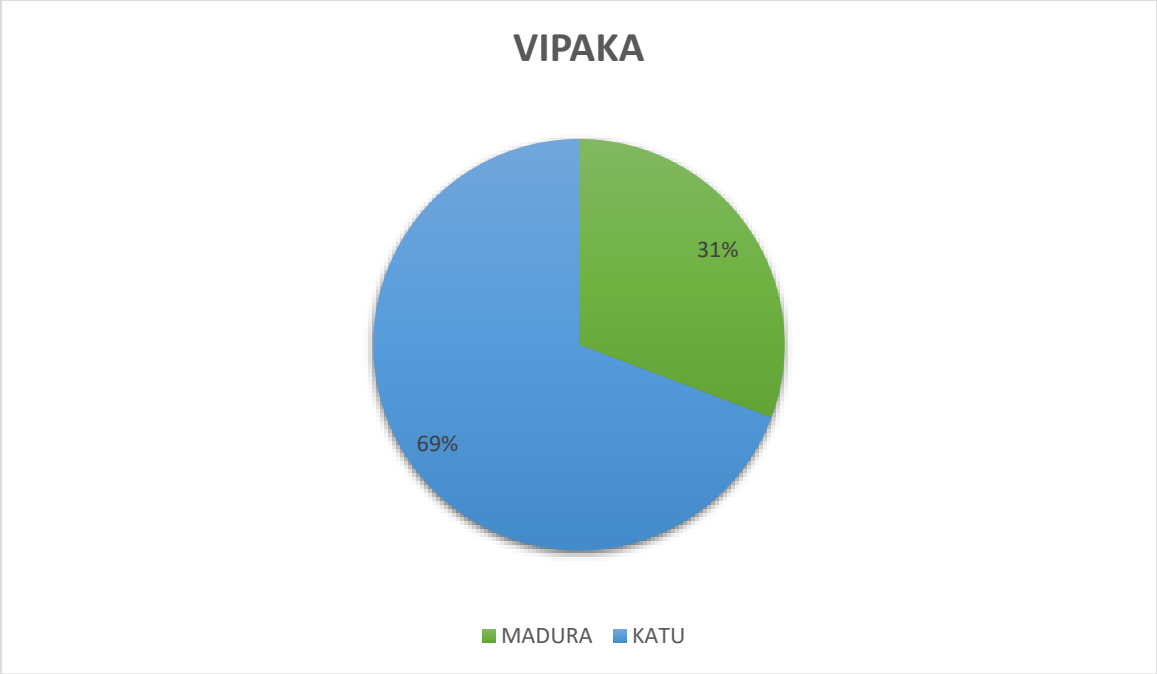


Diagram 4: Analysis of *vipaka* of ingredients of pippalimuladi *agada*



DISCUSSION

Pippalimuladi agada is one of the formulations told in *kriya Kaumudi* in context of *Dushi Visha*, which is a herbo mineral formulation mostly contains 13 drugs including one mineral drug.

Based on *Rasa* in this formulation about 31.03% of the drugs having *madura rasa* which is *vata pitha hara*, ojovardhaka , vishahara , dahaprashamana , twachaya , *mukha kanda osta jihwaprahladana* and *murcha prashamana* 27.58% of the drugs having *tiktha rasa* which is *pitha kapha hara, vishagna dipana pachana, kantha shodana Trishna parshamana* and 20.68% of drugs having *katu rasa* which is *kapha hara kandu vinashani marga vivrnoti , kushatgna* 20.68% of drugs are having *Kashaya rasa* which is also *pitha kapha syamaka, asravishodaka (*open channels*) , artinashaka* (relives pain),*Ropana*[35].

Based on *Guna* in this formulation have 33% of the drugs have *laghu guna*, 22% of the drugs have *snigdha* aid in the rapid penetration of *Dravyas* to offer speedier effect on *Visha*. 26% of the drugs having *rooksha guna* 8% of the drug having *guru guna* , 7% of the drugs in the formulation having *teeksha* and 4% of drugs having *vishada guna*

Based on *Veerya* in this formulation 54%of the drugs are *sheeta* which is *pittahara* and *Sthambaka*, *Raktaprasadaka*. 38% of

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ingredients have *Ushna Veerya* and it's on *Kapha* and *Vata Dosha hara* helps for digestion of *Dravyas*, and 8% *anushna* [36].

According to the *vipaka* in this formulation 69% of the drugs contain *katu vipaka*, which calms the *Kapha dosha* while 31% of the drugs are having *madhura vipaka*, which maintains *Pitta* and *Vata dosha* [37].

Most of the ingredients in *Pippalimuladi agada vishagna, shulagna, Hridya, Mutrala* etc. This formulation contains drugs like *pippali,pippalimula, gaja pippali*, and others, it serves as *Pachana, Deepana* and keeps *Agni* at the cellular level. The *Vishagna* properties of medications like *Kushta, Mayoorashikha, Lodhra, Jatamamsi, Yashti madhu, Gairika, Chandan,a Tagara*, helps to counter act against the *visha Prabhava*.

CONCLUSION

Based on this examination of the literature, *pippalimuladi agada* may be one of the successful formulations mentioned in *kriyakaumudi* for the treatment of *dushi visha*. All of the medications listed above are not hazardous, Free of risk, readily available, and affordable. The goal of this review is to provide in-depth information on the pharmacological, therapeutic, and medicinal applications of *pippalimuladi agada*.

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