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Research Article

The Effect Of Vaasa Kushmanda Khanda In The Management Of Amlapitta-A Controlled Comparative Clinical Study

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ABSTRACT-

Amlapitta is a vidagdha Pitta vyadhi, being the result of a faulty diet and life style adaptations. An increased amla guna and dravatha of Pachaka pitta due to pitta prakopaka ahara vihara leads to Vidagdhajirna. Further the vidagdha anna achieves Shuktha paka and develops Avipaka, Klama, Utklesha, Gourava, Hrid kanta daha, Tiktha-amla udgara and Aruchi clinically.

The symptoms of *Amlapitta* explained in Ayurveda are nearer clinical entity with Gastritis. An inflammation of stomach lining

with the symptoms of upper abdominal pain, nausea, vomiting, bloating, loss of appetite and heartburn.

The objective of the study is to evaluate and compare the efficacy of *Vaasa kushmanda khanda* and *Pippali khanda* in the management of *Amlapitta*. 40 patients diagnosed with *amlapitta* were randomly assigned equally to two groups (A and B). Group A received the trial drug *Vaasa kushmanda khanda* and Group B received *Pippali khanda* for a 30 days.

Statistical analysis revealed that both the interventions were effective in the management of *Amlapitta* with a significant overall improvement in Group A compared to group B. The *Vaasa kushmanda khanda* has given maximum result on the *Tikta amla udgara*, *Klama and Hrid –Kanta Daha* followed by *Avipaka*, *Aruchi*, *Utklesha and Gourava*. (By comparing t' value).

Key words:-Amlapitta, Gastritis, Vaasa kushmanda khanda, Pippali khanda

INTRODUCTION

Ayurveda the science of life, guide us through its various principles of daily routine (vihara), diet (ahara) and behavioral conducts (achara) to maintain the positive mind and body and keep the disease at the bay. The same time balances the life by holding a preventive aspect (Swasthya rakshana) and a curative aspect (Athura vikara Prasamana)¹.

Human being need to go for short term or long term adaptations to survive in this world. Irregular and improper food habits, busy stressful lifestyle and westernization are the main culprits of an Obstinate disorder escalating in its prevalence i.e. *Amlapitta*. As per Ayurveda, when a person with an excessive *Pitta* secretion due to its own aggravating factors like season, age etc ,will habitually takes incompatible, sour ,heart burn producing *,Pitta* vitiating food and drinks leads to a diseased condition called as *Amlapitta*².

In Amlapitta, due to nidana sevana, amla guna of Pitta increases which leads to agnimandya there by ingested food becomes vidagdha and finally the symptoms like Amla udgara, Urovidaha and Aruchi are evident clinically ³.

Digestive system disturbance is one of the most important and challenging area of general practice. It is important because it causes one third of new consultations and nearly a quarter of all consultations⁴. The above symptoms of *Amlapitta* as explained in Ayurveda are nearer clinical entity with symptoms of gastritis, an inflammation of lining of the stomach. It may occur as a short episode or may be of a long duration. There may be no symptoms but, when symptoms are present, the most common is upper abdominal pain. Other possible symptoms include nausea and vomiting, bloating, loss of appetite and heartburn⁵.

The prevalence rate of gastritis in India is around 10 millions ⁶. A population-based study, using a validated questionnaire, found that 58.7% of the population has heartburn or acid regurgitation at least once during the course of a year and that 19.8% experience symptoms at least once weekly⁷.

The ahara, vihara, varsha ruthu and anupa desha are falls under the troubling factors while considering Amlapitta⁸. The disease leads to malnutrition too; due to the lack of proper digestion and assimilation. Search of a perfect medicine that can counter against the troubling factors and malnutrition end up with the trial drug Vaasa kushmanda khanda;

explained by Acharya Vangasena in *Vangasena Samhitha kasa adhyaya*, which is indicated in *Amlapitta* too⁹.

IRIAY

Tikta rasa pradhana ahara oushada Kalpana and laghu guna yuktha dravyas with Pitta kapha shamaka qualities are explained in of Ayurveda for the management Amlapitta¹⁰. Vaasa is mentioned in kapha pradhana Amlapitta and the kushmanda in Pitta pradhana one by chakradatta¹¹ .Vaasa is kapha Pitta hara in action and having properties¹². hridya and rasayana Kushmanda is Pitta- vata hara, Hridya, Bruhmana and Medhya in action. 13

The Vaasa kushmanda khanda contains the drugs having Tikta — Madhura Rasa, Madhura Vipaka, Sheeta veerya and Laghu, Ruksha property with pitta-Kaphahara action. This will help to manage the Pitta and kapha dosha involved in the genesis of Amlapitta. In addition the rasayana, bruhmana and medhya actions of medicine will take care of physical and mental well being of the person. So the Vaasa kushmanda khanda can tact the doshik combination of Amlapitta so easily.

The *khanda avalehya* form of preparations having comparatively longer shelf life in addition to the palatability, due to less

moisture content, presence of sugar, ghee, and honey¹⁴. It helps to preserve the medicine throughout the year and even in *anupa desha*. They were aromatic with sweet and astringent taste. The easy availability of raw drugs and cost of preparation made the drug of choice.

The standard drug *Pippali khanda* was a proved medicine in *Amlapitta* explained by *Bhaishajya* Ratnavali Amlapittaprakaranam¹⁵. The cost and availability of *Pippali* is a challenge to pharmaceutical industry. The milk used in preparation will leads to higher moisture content and short shelf life comparatively. Hence the search for a better choice came up.

A good number of research works has been carried out on *Amlapitta* at various institutes of Ayurveda and many of the clinical trials have proved effective to some extent but failed to provide satisfactory answers to cure the disease. Keeping all these factors into consideration here is an attempt to compare the effect of *Pippali khanda* ¹⁶ and *Vaasa Kushmanda khanda* ¹⁷ in the management of *Amlapitta*.

AIMS AND OBJECTIVE OF THE STUDY:-

- To evaluate the efficacy of Vaasa kushmanda khanda in the management of Amlapitta
- 2. To evaluate the efficacy of *Pippali khanda* in the management of *Amlapitta*.
- 3. To compare the efficacy of *Pippali*khanda and *Vaasa* kushmanda

 khanda in the management of

 Amlapitta.

HYPOTHESIS:-

- 1. **H₀:** There is an equal effect of Pippali khanda and Vaasakushmanda khanda in the management of Amlapitta.
- 2. H₁: Pippali khanda has got more effect than Vaasakushmanda khanda in the management of Amlapitta.
- 3. **H₂:** Vaasakushmanda khanda has got more effect than Pippali khanda in the management of Amlapitta.

MATERIELS AND METHODS

Patients attended the *Kayachikitsa* OPD and IPD of Dhanvantari Ayurveda college hospital, Siddapur were screened for *Amlapitta roga*. Out of which 40 diagnosed patients of *Amlapitta roga*, who fulfilled the inclusion criteria, were selected for the study. Demographic data related to disease were collected as per the case record Performa and consent taken from the patient in written consent format.

Inclusion criteria:-

- 1. Age 16 60 years
- 2. Either gender
- 3. Chronicity less than 5 years
- 4. No discriminations of severity of disease
- 5. Patients of classical *Amlapitta* symptoms irrespective of gender, cast, occupation and economical status.
- 6. Amlapitta of any dosha anubandha.
- 7. Cases of *Amlapitta* in whom treatment were interrupted are considered with a period of one week gap for the treatment.

Exclusion criteria:-

1. Patients with history of systemic illness like diabetic mellitus,

- hypertension, thyroid hormone imbalances, cardiac pathology, immune deficiency disorders like AIDS.
- 2. Patients with history of *Parinama*Shula (gastric ulcer, duodenal ulcer), *Annadrava Shula*,

 Krimiroga, Arbuda etc.
- 3. Patient with history of hematemesis, melena and anemia.

Criteria of Diagnosis:-

Diagnosis is made on the basis of classical symptoms.

- 1. Avipaka
- 2. Klama
- 3. Utklesha
- 4. Tikta- amla udgara
- 5. Gourava
- 6. Hrid kanta daha
- 7. Aruchi

STUDY DESIGN:-

TYPE OF STUDY:- Randomized Controlled Comparative Clinical study.

Research design:- 40 diagnosed patients of *Amlapitta*, fulfilling inclusion and exclusion criteria were taken for the study and randomly divided in to two groups A and B.

Table shows the research design of group A

Group A Sample size	Drug	Dose	Anupana	Duration
20 patients	Vaasakushmanda khanda	12 gm twice a day	Sukoshna jala	30 days

Table shows the research design of group B

Group B Sample size	Drug	Dose	Anupana	Duration
20 patients	Pippali Khanda	12gm twice a day	Sukoshna jala	30 days

Observation period:- Patients were reviewed on 1st, 15th, 21st, and 30th day

Follow up:-Fifteen days after the course of treatment

Total study Duration:- Thirty days.

DRUG SOURCE

Preparation Of The Trial Drug Vaasa kushmanda Khanda 18:-

Table Shows Ingredients of Vaasa kushmanda Khanda:-

Sl.	Sanskrit Name	krit Name Botanical name		Proportion
1	Kushmanda	Benincasa hispida	Fruit	4 kg
2	Vaasa	Vasa Adhathoda	Leaf	20.48 ltr
3	Vamsalo <mark>cha</mark> na	Carum bulbocastanum	Heartwood	80 gm
4	Aml <mark>aki</mark>	Emblica officinalis	Fruit	80gm
5	Mustha	Cyperus rotundus	Rhizome	80gm
6	Barangi	Clerodendrum indicum	Leaf	80 gm
7	Twak	Cinnamomum zeylanicum	Bark	80 gm
8	Ela	Elettaria cardamomum	Seed	80gm
9	Pathra	Cinnamomum tamala	Leaf	80 gm
10	Pippali	Piper longum	Seed	320 gm
11	Ghee		And the state of t	1280 gm
12	Honey			640 gm
13	Sharkara			8 kg

Method of Preparation:-

Preparation was done in 4 stages.

1-Vaasa kwata preparation.

Vaasa kwatha prepared by adding 10 kg of Vaasa patra and 80 litre of water; boiled and reduced to 20.48 litres.

2- Steaming of kushmanda khanda.

The *kushmanda* pieces steamed well till it reach paste like consistency.

3- Cooking stage.

Steamed pieces of *kushmanda* was fried with ghee, and then cooked with *Vaasa kwatha* and *Sharkara*.

4- Addition of Prakshepaka churna.

When it is almost cooked the powders of *Vamsalochana*, *Amlaki*, *Barangi Pippali Mustha*, *Thrijatha* are added and stirred well with a ladle. After it gets cooled honey were added.

Paka Lakshana.

The sign of completion of *paka* is determined by finger-print.

Physical test for *Vaasa kushmanda khanda*Paka¹⁹:-

- Tantumatwam: Avalehya paka should have thread like consistency, when pressed in between two fingers.
- Apasumajjati: If put in water, should sink in it.
- Kharatwam: Solid or rough to touch.
- *Pidite mudra*: Should give finger prints, when pressed between two fingers.
- Gandha Varna rasa samudbhava: - Must attain the smell, color and taste of its ingredients

Preparation Of Standard Drug *Pippali Khanda*²⁰:-

Table Shows Ingredients of *Pippali khanda*:

Sl.	Sanskrit Name	Botanical name	Part used	Proportion
1	Pippali	Piper longum	Dried rhizome	3kg
		Asparagus		
2	Satavari	racemosus	Decoction	6.4 kg
3	Amlaki	Emblica officinalis	Fruit	100gm
4	Dhanyaka	Coriander sativum	Fruit	100gm
		Carum		
5	Krishna jir <mark>ak</mark> a	bulbocastanum	Seed	100gm
		Cinnamomum	~	N. Control of the Con
6	Twak	zeylanicum	Bark	100gm
	0	Elettaria		
7	Ela	cardamomum	Seed	100gm
		Cinnamomum		20
8	Tejapa <mark>tra</mark>	tamala	Leaf	100gm
9	Mustha	Cyperus rotundus	Tuber	100gm
10	Sweta jir <mark>aka</mark>	Cuminum cyminum	Seed	100gm
	To American Control of the Control o		Dried	
11	Shunti	Zingiber officinale	rhizome	100gm
	No. of Street, or other Property of the Proper	Bambusa	A CONTRACTOR OF THE PARTY OF TH	
12	Vamsalochana	arundinaceae	Rind	100gm
13	Haritaki	Terminalia chebula	Fruit	100gm
14	Khadira	Acacia catechu	Sara	50 gm
15	Maricha	Piper nigrum	Fruit	50 gm
16	Ghrita			2.3kg
17	Goksheera(Cow milk)			12.5 litre
18	Madhu(Honey)			1.2 kg
19	Mishri (Sugar)			7 kg

Method of Preparation:-

Ksheera (milk) was boiled with Pippali churna (powder) on Mridu Agni till it became a paste. Go Ghrita, Satavari kwatha (decoction) and sugar were mixed in it. Fried on Mridu Agni until Ghrita got separated from the paste form. When the Paka lakshanas were obtained, vessel taken out of the fire and Sukshma Churna (fine powder) of Prakshepaka drugs are added and mixed uniformly. After it gets cooled, Madhu (honey) was added. Paka

lakshanas are similar to vaasa kushmanda khanda

ASSESSMENT CRITERIA:-

The Symptoms of Amlapitta in classical text are taken as assessing parameters.

- 1. Avipaka
- 2. Klama
- 3. Utklesha
- 4. Tikta- amla udgara
- 5. Gourava
- 6. Hrid kanta daha
- 7. Aruchi

GRADING OF CLINICAL PARAMETERS

The signs and symptoms were graded for assessment as follows;

A) AVIPAKA (INDIGESTION)

GRADE	SYMPTOMS
Grade 0	No indigestion at all
Grade 1	Indigestion occasionally 1-2 days / week
Grade 2	Indigestion is not more than 3-4 days/week
Grade 3	Indigestion daily

B) KLAMA (EXHAUSTION OF BODY)

GRADE	SYMPTOMS
Grade 0	No Klama
Grade 1	Occasionally and Mild
Grade 2	Continues but tolerable
Grade 3	Continues but not tolerable

C) GOURAVA (HEAVINESS OF BODY)

GRADE	SYMPTOMS	
Grade 0	No Gourava	
Grade 1	Occasionally in Mild	
Grade 2	Frequent but tolerable	
Grade 3	Frequent but intolerable needs medication	

D) HRID-KANTA DAHA (HEART BURN)

GRADE	SYMPTOMS
Grade 0	No Daha
Grade 1	Daha of mild degree in any area of Kanta, Udara, Ura, Kukshi
Grade 2	Daha of severe degree involving Hrid, Kanta etc. and relieved after digestion of food, vomiting
Grade 3	Severe degree of <i>Daha</i> involving major Areas of abdomen

E)_TIKTA - AMLA UDGARA (BITTER AND SOUR BELCHING)

GRADE	SYMPTOMS
Grade 0	No Amla udgara / Tikta udgara
Grade 1	Occasionally 1-2 days /week
Grade 2	udgara daily but subside without medicine
Grade 3	Daily udgara and not subsided without medicine

F) ARUCHI (ANOREXIA)

GRADE	SYMPTOMS
Grade 0	Patient is taking food without hesitation.
Grade 1	Mild Aruchi without hampering intake of food
Grade 2	Moderate Aruchi hampering intake of food
Grade 3	Severe Aruchi with hesitance towards intake of food

G) UTKLESHA (NAUSEA)

GRADE	SYMPTOMS
Grade 0	No Utklesha
Grade 1	Feeling of Nausea occasionally
Grade 2	Feeling of Nausea almost daily
Grade 3	Severe nausea followed by Vomiting

ASSESMENT:

Considering the overall changes seen in the assessment parameters the total effect of the treatment was assessed as follows-

- Complete remission relief of 100% of sign & symptoms
- Marked improvement relief of >60%
- Moderate improvement 50% to 60% relief
- Mild improvement 40% to 50% of relief
- No Change <40 % relief

Statistical Analysis

Paired t-test and Unpaired t –test were used for statistical analysis.

OBSERVATION AND RESULTS

The demographic data reveals the following factors about *Amlapitta* patients. 50% of patients were in the age group of 16 to 30 years. 70% patients were females and 90 % of the participants were Hindus while 05% were Muslims and Christians. Majority of the

subjects belonged to middle class Socioeconomic status (67.5%). 92.5% patients were in Active occupation. Maximum numbers of patients (62.5%) were not having family history of *Amlapitta and* 70% of the participants consumed mixed diet.

35% of the patients claimed Mandagni and Tikshnagni, 30 % had Vishmagni. 37.5% of the patients claimed an Alpa Kshudha, 32.5% reported Madhyama Kshudha 30 % had Ati Kshudha. 42.5% of the patients were followed Vishamashana, 40% were followed Samashana and 17.5% were followed Adhyashana. 50% of the patients had Madhyama Koshta, 40% were Mrudu koshta patients and 10% were Kroora koshta.

70% of patients are Anupa desha jatha 77.5% were Anupa desha Varditha and 95% of them are Anupa desha Vyadhitha. Among 40 patients, 2.5% belongs to Vata Kapha Prakriti, 12.5% belongs to Vata Pitta Prakriti, 15% belongs to Kapha Vata Prakriti, 10% belongs to Pitta Vata Prakriti, 30% belongs to Kapha Pitta Prakriti.30% belongs to Pitta Kapha Prakriti. 70% of the patients are Rajasika, 25% are Tamasika and 05% are Satvika Prakriti.

Distribution of Patients on the basis of Chief complaints.

Table Showing the Distribution of Patients on the basis of Chief Complaints

	Group A		Group B		Total	
Chief complaints	No.	%	No.	%	No.	%
Avipaka		And the second	, 10	Urn.	The Contract of the Contract o	
	19	95%	20	100%	39	97.50%
Klama					1	
/	20	100%	19	95%	39	97.50%
Utklesha	0 /					
	13	65%	11	55%	24	<mark>60%</mark>
Tikta-Amla						
udgara	20	100%	20	100%	40	100%
Gourava						
1	19	95%	18	90%	37	92.50%
Hrid –Kanta					/ 9	, and a second
Daha	19	95%	19	95%	38	95%
Aruchi	The Robert Land				and the state of t	
	16	80%	13	65%	29	72.50%

RESULTS

Table Showing Overall response for the treatment

Group	Overall response												
	Complete		Marked improvemen t		Moderat improve		Mild improve	ment	No Change				
	No. Patients	%	No. Patients	%	No. Patients	%	No. Patients	%	No. Patients	%			
Group A	00	00%	14	70 %	05	25%	01	05%	00	00%			
Group B	00	00%	6	30 %	10	50%	04	20%	00	00%			

STATISTICAL ANALYSIS

Paired t test

Following are the statistical data obtained (Paired t test with IBM SPSS software.)

Group A

Table No 87. Showing the Statistical analysis of Group A after treatment.

Para Meters	MEAN BT	AT	MD	Redu ction	SD	SE	DF	t VALU E	P VALU E	REMARKS
Avipaka	2.45	0.2	2.25	91.83	0.72	0.16	19	14.047	<0.001	HS
Klama	1.85	0.2	1.65	89.18	0.49	0.11	19	15.079	<0.001	HS
Gourava	1.5	0.00	1.5	100	0.61	0.14	19	11.052	<0.001	HS
Hrid – Kanta Daha	1.55	0.05	1.5	96.77	0.69	0.15	19	9.747	<0.001	HS
Tikta- Amla udgara	2.20	0.1	2.1	95.45	0.55	0.12	19	16.998	<0.001	HS
Aruchi	1.1	0.00	1.1	100	0.64	0.14	19	7.678	<0.001	HS
Utklesha	1.3	0.00	1.3	100	1.03	0.23	19	5.638	<0.001	HS

^{*}HS – Highly Significant, SS –Statistically Significant, NS – Not Significant

Group B

Table No. Showing the Statistical analysis of Group B after treatment

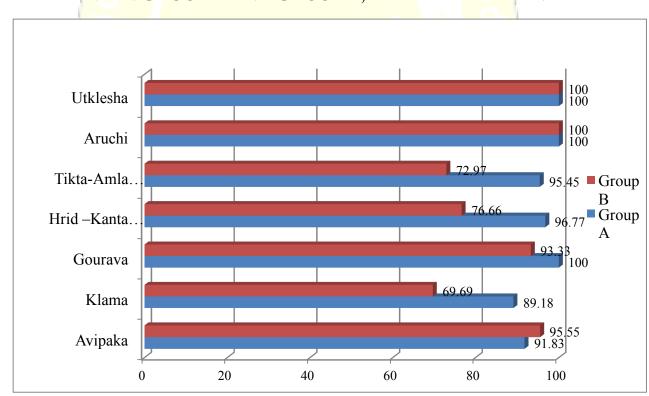
Parameters	MEA BT	AN AT	MD	Redu ction	SD	SE	DF	t VALU E	P VALU E	REMARKS
Avipaka	2.2 5	0.10	2.15	95.55	0.75	0.17	19	12.903	<0.001	HS
Klama	1.6	0.50	1.15	69.69	0.75	0.17	19	6.902	<0.001	HS
Gourava	1.5	0.1	1.40	93.33	0.68	0.15	19	9.20	<0.001	HS
Hrid – Kanta Daha	1.5	0.35	1.15	76.66	0.37	0.08	19	14.038	<0.001	нѕ
Tikta-Amla udgara	1.8	0.50	1.35	72.97	0.59	0.13	19	10.283	<0.001	HS
Aruchi	1.0	00	1.00	100	0.65	0.15	19	6.892	<0.001	HS
Utklesha	1.1 0	00	1.10	100	1.02	0.23	19	4.819	<0.001	HS

^{*}HS – Highly Significant, SS – Statistically Significant, NS – Not Significant

Table Showing Comparison between the post treatment results of both groups

Parameter	Group A	Group B
Avipaka	91.83%	95.55%
Klama	89.18%	69.69%
Gourava	100%	93.33%
Hrid –Kanta Daha	96.77%	76.66%
Tikta-Amla udgara	95.45%	72.97%
Aruchi	100%	100%
Utklesha	100%	100%

GRAPHICAL REPRESENTATION-COMPARATIVE EFFECT OF TREATMENT IN GROUP A AND GROUP B, AFTER TREATMENT



Based on the results obtained by Paired t test the following observations can be made

- ➤ Group A Of the 07 parameters, changes recorded in 07 parameters were highly significant
- ➤ <u>Group B Of the 07 parameters, changes recorded in 07 parameters were highly significant.</u>

Unpaired t test

Showing the Statistical analysis of Group A and Group B after treatment

Parameters	C		9.00	Gro	Group-B			0.5		
	N	MD	SD	N	MD	SD	DF	t VALUE	P VALUE	REMARKS
Avipaka	20	2.25	0.716 3500	20	2.15	0.7451 600	38	0.4327	>0.05	NS
Klama	20	1.65	0.489 3600	20	1.15	0.7451 600	38	2.5083	<0.05	SS
Gourava	20	1.5	0.606 9800	20	1.4	0.6805	38	0.4904	>0.05	NS
Hrid –Kanta Daha	20	1.5	0.688 2500	20	1.15	0.3663 500	38	2.0076	<0.05	SS
Tikta-Amla udgara	20	2.1	0.552 5100	20	1.35	0.5871 400	38	-4.1602	<0.05	HS
Aruchi	20	1.1	0.640 7200	20	1	0.6488 900	38	0.4904	>0.05	NS
Utklesha	20	1.3	1.031 1000	20	1.1	1.0208 400	38	0.6164	>0.05	NS

^{*}HS – Highly Significant, SS –Statistically Significant, NS – Not Significant

(Unpaired t test was done using, Graph pad **Quick Calcs t test calculator**)

t test the following observations can be made,

- Avipaka- not significant
- Klama -statistically significant
- ➤ Gourava-is not significant
- ► <u>Hrid-KantaDaha.</u>-statistically significant

- Based on the result obtained by Unpaired
- <u>Tikta-Amla udgara-</u> highly significant
- <u>Aruchi</u> not significant
- *Utklesha* not significant.

"The overall improvements seen in Group A are more significant than that of Group B."

DISCUSSION

The present study on *Amlapitta* becomes an eye opener towards the importance of our Ahara viharas, Irregular and improper food habits, busy stressful lifestyle and westernization. Viruddhahara, Divasvapna, Antarodakapana Pana, Vidahi Anna, Sheeta Jalapana are the few common factors mentioned by all Acharyas. Any Nidana responsible for Mandagni or Agnidushti can be the cause of Amlapitta. This first vitiate the *Doshas*, then *dushyas* and pathogenesis progresses.

Rasa Dhatu is mentioned as the Dushya of disease *Amlapitta* by Acharya Kashyapa. The involves Rasavaha. disease Raktavaha. Purishavaha and Annavaha Srotas. Hence the

overall wellbeing of diseased comes under the threat due to malnutrition by the lack of proper digestion and assimilation.

The *Purvarupa* is not mentioned in any classics. Due to a short sthana samsraya avastha in Amlapitta the Purvarupas are not manifesting clearly and *rupas* present at the starting of vyadhi can be considered as Purvarupa of disease. Madhavakara has given general symptom of Amlapitta as Avipaka, Klama, Utklesha, Tikta, Amlodgara, Gourava, Hrit-kantaDaha, Aruchi etc.

Amlapitta is mostly Chirakari in nature. This is caused by Jivha-Laulya (Ch. Chi. 15; Ka. Khi. 16), as patients are aware of the *Nidanas* and still they tries to consume it due to Jivha – Laulya.

Classification and types of *Amlapitta* are done based on dosha and Marga. There are two types based on Marga, Adhogata and Urdhvaga Amlapitta. Maximum numbers of patients are encountered of *Urdhvaga* type as Adhogata is misdiagnosed with Grahani (Pittaja), Atisara etc. Kashyapa mentioned Pittolvana Vatolvana, and Kapholvana types and Madhavakara has mentioned three more type as Vatika, Vatakapha and Kapha.

Kashyapa Acharya was the one and only person explained about *upashaya anupashaya* and *upadravas* of *Amlapitta*. He mentioned *Atisara, Pandu, Shula, Shotha, Aruchi, Bhrama* are the *Upadravas*.

Pathya has given a high importance in Amlapitta and non-compliance with Pathya, may make these diseases incurable. The anupa desha, varsha ruthu, pitta prakopaka type of diet and activities are the favourable factors for this disease. So the management demands the proper pathya in terms of diet and life style according to the place of living and season. Long lists of pathya are explained in Kashyapa (Chi.16/38-41) and other Granthakaras. Tikta madhura rasa, Laghu Anna pana are explained as main pathya.

The symptoms of Amlapitta as explained in Ayurveda are nearer clinical entity with symptoms of Gastritis. An inflamation of stomach lining with symptoms of nausea, vomiting, bloating, loss of appetite and heartburn. As *dravatha* of *pitta* increases the amount of gastric juices becomes larger. Hydrochloric Acid is an ingredient of gastric juices and can be taken as derivative of Pachaka Pitta and it is sour in taste. ultimately the increased amount of Hydrochloric Acid will lead to raised acidity and inflammation of lining and the condition Amlapitta happens.

Ayurvedic management of *Amlapitta* gives an equal importance for Medicines, Lifestyle and Diet. *Nidana parivarjana, shodana* in terms of *Vamana* and *Mridu Virechana, Basti* and *Shamana oushada prayoga* are the management plan.

By giving importance to season and place of living (ruthu &desha) as disease producing factors an advice were given by Acharya Kashyapa regarding the chikitsa of Amlapitta is, "Deshantaram Vrajet" which means, if Amlapitta is not pacified with all the types of Chikitsa, then the person should leave the place. Because when the disease becomes Hanthi (chronic) there only the parivartana of Jalavayu can influence such disease.

Probable mode of action:

Analysis of the properties of each ingredient provided a better understanding of the action of *Vaasa kushmanda khanda*.

Rasa- 10 out of the 13 drugs i.e.77% has Madhura Rasa, 05 out of the 13 drugs i.e. 38.5% has Tikta Rasa and 05 out of the 13 drugs i.e. 38.5% has Kashaya Rasa.

Guna- 09 out of the 13 drugs i.e., 69% has Laghu Guna.08 out of 13 drugs i.e.61.5% has Ruksha guna.

Veerya- 08 out of the 13 drugs i.e., 61.5% has Sheeta Veerya.

Vipaka- 08out of the 13 drugs i.e., 61.5% has Madhura Vipaka.

Doshaghnata - 04out of the 13 i.e. 30.8% drugs are *Tridosha Shamaka*, 03 out of the 13 i.e. 23.1% drugs are *Kapha-Pitta Shamaka*, 03drug i.e. 23.1% is *Vata-Pitta Shamaka*, 02 drug i.e. 15.4% is *Pitta Shamaka*, 01drug i.e. 7.7% is *Kapha-Vata Shamaka*.

Karma- Out of 13 drugs 2 i.e. 15% *Hridya* in action , Out of 13 drugs 05 i.e. 38.5% *Rasayana* in action , Out of 13 drugs 02 i.e. 15.4% *Medhya* in action , Out of 13 drugs 04 i.e. 31% *Brumhana* in action , Out of 13 drugs 04 i.e. 31% *Vrishya* in action , Out of 13

drugs 04 i.e. 31% Deepana Pachana in action.

Based on the above, it can be asserted that *Vaasa kushmanda khanda* has a *Tridosha Shamana* property in general and a special *Pitta Shamana* property.Because of the predominant *Madura – Tikta rasa*, *Sheeta veerya* and *Madhura Vipaka*. Hence it is effective in *Amlapitta* on the basis of *Dosha Pratyanika* action.

Laghu and Rooksha guna acts on kledaka kapha involved in the pathogenesis of Amlapitta and on the Gourava and Dravatha too. Madhura Vipaka acts as Brumhana and Balya thereby shows specific Roga Pratyanika action. In addition the Rasayana Bruhmana Vrishya, Hridya and Medhya actions of medicine will take care of overall physical and mental well being of the person.

Thus, Vaasa kushmanda khanda has both Dosha Pratyanika and Vyadhi Pratyanika actions in Amlapitta Roga.

CONCLUSION

The statistical analysis of the results obtained in the present clinical work suggests that the interventions of both Group A and Group B are highly

significant and effective in the management of *Amlapitta*. But Group A (*Vaasa kushmanda khanda*) showed significantly better response than Group B (*Pippali khanda*).

The Vaasa kushmanda khanda had given a better result to Tikta-amla udgara, Hrid-kanta daha, Gourava and Klama compare to Pippali khanda. The effect on Avipaka is comparatively higher with Pippali khanda. Vaasa kushmanda khanda and Pippali khanda had an equal effect on Aruchi and Utklesha. The study

reiterates the efficacy of *Pippali khanda* in the management of *Amlapitta*. *Vaasa kushmanda khanda* has got more effect than *Pippali khanda* in the management of *Amlapitta*

LIMITATIONS OF THE STUDY:

The sample size is a very small one.

Short duration of study.

A longer duration of treatment and multiple follow-ups are suggested

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