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TITLE

A CLINICAL STUDY OF *PUNARNAVADI CHURNA* AND *KALLINGADI CHURNA* IN THE MANAGEMENT OF *GRAHANI*SHITAL BHAGIYA¹, BHUSHANBHAKKAD ², SHRIJAMAVANI³, DHANANJAY PATEL⁴.

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AN INTERNATIONAL PEER REVIEWED AYURVED JOURNAL



A CLINICAL STUDY OF *PUNARNAVADI CHURNA* AND KALLINGADI CHURNA IN THE MANAGEMENT OF GRAHANI

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ABSTRACT

Grahani is described as an Agni Adhisthana. Grahani is influenced by Agni(has AdharaAdheyaSambandha). Malfunction of Agni i.e. Mandagni causes improper digestion which leads to Grahani Dosha. In current era wrong dietary habits, sedentary lifestyle and stress are key factor for diseases. All these causes disturb the GI tract, leading to poor digestion, absorption and create many digestive disorders. Grahani is one of the digestive disorder, people are often suffering. Atisara(Diarrhoea) is considered as one of the predisposing factor for 'GrahaniRog' where Agnivikriti (Agnimandhya) is root cause. As Agni is the root cause here, the drugs which were chosen for the study were PunarnavadiChurna, Kallingadi Churnawhich increases Agni, corrects Pachan Kriya and Ama and by these corrects GrahniRoga. Method: Thirty patients suffering from Grahani, between the age group of 16 to 60 years of either sex participated in the study. Study was a randomized, controlled, open label clinical study. Patients were randomly divided into two groups: Group A (n = 15) received *Punarnavadi Churna*, 3 grams between two meals for 4 weeks with Ushnajala. Group B (n = 15)Kallingadi Churna with same dose and duration. Assessments were done after 4 weeks in both groups. **Result:** In both Groups26.67% had complete remission; 60% had marked improvement, 13.33% had moderate improvement. Conclusion: Highly significant RESULTS were found in most of all the parameters of Grahani Roga. In comparison to Kallingadi Churna, Punarnavadi Churna showed better result in Grahni Roga.

KEY WORDS: Agni, Grahani, Kallingadi Churna, Punarnavadi Churna.

PUNARNAV: JAN-FEB 2017: VOL: 5, ISSUES: 1 Page No: 01

INTRODUCTION

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The disease "Grahani Roga" is the disorder of the main leading gastrointestinal tract. As the hypo function of Agni i.e. Mandagni is the root cause of all the disease, Grahant Roga is also mainly caused by Agnidushti. It is an Ahitashanajanita Vya<mark>dhi; the Ahitashana</mark> dietary habits includes faulty Pramitasana, Vishamasana Adhyashana, Samashana, Viruddhashana etc. and faulty life style like Diwa Svapana, Ratri Jagarana, and Vega Vidharana etc. The organ Grahani and Agni Ashraya(site) - Ashrita (dependent) type of relationship. The prime site of Agni and the site of occurrence of the disease Grahani Roga is organ Grahani. The impairment of Agni (Mainly Mandagni) is responsible for the creation of Grahani Roga¹.

According to Acharya Charaka, Weak Agni (Durbala) i.e. Mandagni

brings about *Vidaha* (a part which is mixture of digested and undigested material) of the food, which moves upwards and downwards in the gastrointestinal tract. When this *Pakwa-Apakwa* moves down wards, then it leads to the disease *Grahani Roga*².

Grahani roga is Tridoshatmak, disorder of digestive system occurs due to vitiation of Pachakagni, Samanvayu & Kledaka Kapha. It occurs with the symptomatology like Muhurbadhha-<mark>muhurdrava</mark> mala pravritti, Amayukta malapravritti, Udarashula, Arochaka. Klama³. Acharya Sushruta also stated that patients either suffering from Atisara or in the stage of remission of Atisara indulge injudicious diet and neglect dietetic regimen as suggested after the Shodhana -Virechana, results in further vitiation of Agni. This vitiated Agni leads to vitiation of Grahani (Grahani Adhisthana). Thus any disturbance in the functioning of Grahani results in symptoms of indigestion and it is named as Grahani Dosha & finally it results in Grahani Roga⁴.

AIMS AND OBJECTIVES:

- 1) To study the etio-pathogenesis of *Grahani* according to *Ayurveda*.
- 2) To compare the clinical effect of *Punarnavadi Churna* & *Kallingadi Churna* in the management of *Grahani*.

MATERIAL AND METHODS:

In present study, with the above mentioned aims and objectives, the clinical study progressed utilizing the clinical material as under,

1. Selection of Patients:

Patients attending outpatient department of the institute were recruited for the study. The CONSORT statement guidelines have been followed in reporting the outcomes of the study⁵.

2. Sampling Technique:

The patients were selected irrespective of their age, sex, religion, occupation etc. and simple random sampling technique was followed for grouping the patients in two groups.

Diagnostic Criteria:

The patients with the complaints of Grahanii.e. Muhu Baddha /Drava Mal pravritti, Picchil /Durgandhit Mal pravritti, Udgar Pravritti, Vidaha etc. were selected for the study. For the purpose of perfect diagnosis and assessment a special research Performa was designed.

Thirty patients diagnosed as having *Grahani* as per the criteria were recruited from OPD and IPD of the Govt. Akhandanand Ayurved College, Ahmedabad.

Inclusion Criteria:

- Patient having age between 16 years to 60 years.
- Patients having symptom of Grahani,
 i.e. Muhur Baddha / Drava /
 Durgandhita / Picchila Mal Pravriti,
 Udgar Pravriti, Arochak, Praseka, etc.
- Uncomplicated cases with classical pictures of *Grahani* have been selected irrespective of sex, caste, religion and profession.
- Patients have been divided in two

Exclusion Criteria:

- Patients having age < 16 and > 60 years.
- Patients suffering from Acute diarrhoea, Intestinal T.B., Gastric and Peptic ulcer, uncontrolled D. M. and H.T., Gulma, Atisara, Arsha.

Research Design:

The present study is a randomized, controlled, open label, parallel group comparative clinical study. The scholars involved in randomization, distribution and administration of study articles were independent from the investigators. Computer generated random numbers were utilized for the study. During study, patients were asked to adhere to the treatment protocol and report any adverse events to the investigators at the earliest. Any clinical manifestation that was likely

A CLINICAL STUDY OF PUNARNAVADI CHURNA AND KALLINGADI CHURNA IN THE MANAGEMENT OF GRAHANI

to cause considerable distress was screened for possible adverse events.

> Investigations:

- Routine Haematological examinations-Hb, TLC, ESR.
- 2) Routine & microscopic urine examination.

Above all investigations has been done before & after treatment to see patients

general condition and to rule out any other pathology.

Design of Groups and Management:

Patients included in the present study were randomly divided into following two groups:

Group A: Punarnavadi Churna⁶ (Table 1)

Matra (Dose) : 3 Grams in both Madhya Kal i.e. in between the meal.

Duration : 4 Weeks.

Anupana : KoshnaJala (Luke warm water)

Group B: Kallingadi Churna⁷ (Table 2)

Matra (Dose) : 3 Grams in both Madhya Kali.e. in between the meal.

Duration: 4 Weeks.

Anupana: Koshna Jala (Luke warm water)

Dietary restrictions:

The patients were strictly advised to follow the restrictions regarding food, food habits and life style. They were

factors for *Agnimandya*, which can create the disease.

CRITERIA FOR ASSESSMENT

The improvement provided by the therapy was assessed on the basis of classical signs & symptoms of *Grahani*. All the signs & symptoms were assigned score depending upon their severity to assess the effect of the drugs objectively.

Subjective parameters

 Chief Complains: Muhur Baddha/ Muhur Drava Mal Pravriti, Mal Swaroop: Durgandhita / Picchila Mal, Udgara Pravritti: Madhura/ Tikta/ Amla, Trishna, Arochaka, Vidaha. Associated symptoms: Pad Shotha, Tama Pravesha, Chardi, Aalasya, Jwara, Praseka: Hyper salivation, Bala Kshaya.

Objective parameters (Investigation):

Haemoglobin

- ESR
- WBC

STATISTICAL ANLYSIS:

Wilcoxon signed rank test⁸, chi square test and Students't' test were applied for data analysis.

RESULTS:

EFFECT OF PUNARNAVADI CHURNA (GROUP - A):

15 patients who completed treatment in group A, highly significant results were found in cardinal signs like mal Muhurbaddha/Drava Pravritti, Durgandhit/PichhilaMalaPravritti, Trishna (Table 3). Associated Complaints Aalsva, Jwar, Praseka, BalKshaya had highly significant result (Table 4), while others UdgarPravrtti, Madhur/Tikta/ Amla Arochaka had significant result (Table 3). There was statistically highly significant increase in Hb.Changes in ESR was statistically significant (Table 5).

The reduction was Muhurbaddha / Muhurdrava Mal pravritti(76.92%),

Durgandhit / Pichhila Mal Pravritti(91.43%), Madhura / Tiktta / Amla UdgaraPravritti, Vidaha and Trishnarelieved 100% (Table 3). Arochak was relieved 88.89% (Table 3). Associated Complaints Pad Shoth, Jwar and Prasek had been decreased 100% (Table 4).

TamaPravesh88.46% Aalasya90% and Balkshay81.82% (Table 4).

EFFECT OF KALLINGADI CHURNA(GROUP – B):

treatment in group B, highly significant results were found in cardinal signs like Muhubaddha /Drava mal Pravritti, Durgandhit / PichhilaMal Pravritti, Trishna(Table 3). Associated Complaints, Aalsya, Bal Kshayahad highly significant result (Table 4), while others Madhur

/Tikta / Amla Udgar Pravrtti, Arochaka, Tama Pravesha had significant result (Table 3). There was statistically highly significant increase in Hb.Changes in ESR was also statistically highly significant (Table 5).

The reduction was *Muhur baddha / Muhur drava Mal pravritti* (84%),

A CLINICAL STUDY OF PUNARNAVADI CHURNA AND KALLINGADI CHURNA IN THE MANAGEMENT OF GRAHANI

Durgandhit / Pichhila Mal Pravriti (83.33%),Madhura Tiktta AmlaUdgaraPravritti,Vidaha and relieved 100%. Trishna was relieved 96.55%. Arochak was relieved 76.92% (Table 3).

Associated Complaints Pad Shoth. Jwar, Praseka and Tama Pravesh had been decreased100%. Aalasya (96.55%) and Balkshay (83.33%) (Table 4).

OVERALL EFFECT OF THERAPY:

In Group Α (Punarnavadi Churna), 4 patients (26.67%)complete remission; 9 patients (60%) had marked improvement, while 2 patients (13.33%) had moderate improvement. While evaluating the overall effect of therapy, it was observed that none of the patients showed mild improvement or remained unchanged.

In Group B (KallingadiChurna), patients (26.67%) had complete remission; 9 patients (60%) had marked improvement, while 2 patients (13.33%) moderate improvement. While evaluating the overall effect of therapy, it was observed that none of the patients showed mild improvement or remained unchanged.

Probable Action of *Punarnavadi* Churna in *Grahni Roga*:

On the basis of physiochemical properties of Punarnavadi Churna, probable samprapti vighatana can be understood as follows,

Probable action on dosha

In disease Grahani Roga, Kledaka Kapha these 3 are the main culprits. The combination shows main action against Vata and Kapha Doshas

by virtue of its *veerya* (100 % of total drugs Samana Vayu, Pachaka Pitta and have an Ushnavirya). It also exhibits Tridosha shamaka prabhava, but to a lesser extent.

ii. Probable action on dushya

From the Samprapti of Grahnai Roga, it is clear that the main Dushya involved is Rasa Dhatu. The combination shows, about 75% of total drugs have a Katu Rasa & 62.5% have got Tikta Rasa.Tikta & Katu Rasa improves the Digestion and makes Dhatu in proper form, so the

combination will act on the Rasadhatu. After seeing karmas percentage, it is clear that the yoga has a *Dipana* (87.5 % of total drugs) and Pachana (about 50% oftotaldrugs) properties. It is prove that the yoga acts on the Rasa dhatu.

iii. Probable action on agni

In the combination, maximum percentage of the drugs like *Punarnva*, *Maricha*, *Shunthi*, *Chitraka*, etc. show *Dipana*, *Pachana* Property which improves the function of *Agni*. The *Churna* will stop the

further *Ama* production and help into breakage of basic Pathology. The yoga acts on 13 types of *Agni* mentioned in *Ayurveda*.

iv. Probable action on ama

An Ama means un ripe and undigested Anna rasa. It needs proper paka. By the virtue of Ushna veerya (100% of total drugs) and Dipana- Pachana Property, Aam pachana will take place. This Aampachana causes Strotomukhvishodhana. Drugs like Punarnva, Maricha, Shunthi, Chitraka, etc. are proved as a best Amapachaka. So the yoga will act on the Ama

Among the ingredient of Punarnavadi Churna Punarnava, Maricha, Pathya & Bilva these 4 drugs are Sodhana drug. Besides thus, Punarnavadi Churna consists prevalence of Adhobhagahara Shodhana drug. Only Sharpunkha, Sunthi, Chitraka & Chirbilva are Shaman drugs but included in Yoga as a Dipana — Pacana and Lekhana drugs. All the Sodhana drugs have properties like Suksma, Tiksna, Usna, Laghu etc. which

made them potent *Lekhana–Chedana* drug. The deficient quantity of *Sodhana* drug because *Punarnavadi* is a *Shamana Yoga*, Generates *Anulomana* action in spite of *Virechana*. So it acts by

- Eradication of *Ama* by *Lekhana- Chedana* action from *Grahani Adhisthan* and *Pakvashya*.
- Expellation of dislocated Ama from body / Adhisthana by Anulomana action combine disintegrates Sanchitta Dosha in Grahani. This pacifies the symptomatology of Annavaha Srotodusti Laksana.
- In addition, *Sodhana* drug possesses in caliber to access in deep region of *Dhatus*. This provides ability of eradication of systemic *Ama* by *Punarnavadi Churna*. This systemic eradication of *Ama* alleviates the systemic symptoms.

Probable Mode of the Action of *Kallingadi Churna*:

Acharya Charaka states that, certain drugs act through Rasa; some through Veerya; some through their

Gunas; some through their *Vipaka* and some through their *Prabhava*.

A CLINICAL STUDY OF *PUNARNAVADI CHURNA* AND *KALLINGADI CHURNA* IN THE MANAGEMENT OF *GRAHANI*

i. At the level of *Dosha*:

Because of its Laghu, Ruksha - Guna and Katu, Tikta - Rasa (dominant with Agni, Vayu and Akasha Mahabhuta)

it subsides the aggravated *Kapha*. While, by *Ushna Veerya & Tikshna Guna* it counteracts *Vata*.

ii. At the level of Agni:

By virtue of its *Tikshna Guna* which is predominant with *Agni, Vayu* and *Akasha Mahabhuta. Ushna Veerya*,

Katu - Tikta Rasa it stimulates Jatharagni which turn by turn stimulates all other Agnis.

iii. At the level of Dhatu:

Due to Katu, Tikta Rasa, Katu Vipaka, Ushna Virya, Laghu, Ruksha, TikshnaGunas drug brings down the increased Rasa Dhatu to normalcy and due to equilibrium of Rasa, Madhura Rasa and Snigdha Guna nourish the Rasadi Dhatu.

In *Grahani Roga*, mainly there is vitiation of *Agni*, usually *Mandagni* is seen. This ultimately results in *Ama* formation and also may lead to *Suktapaka*. *Kallingadi Churna* has properties like *Katu*, *Tikta Rasa*, *Katu Vipaka*, *Laghu*,

Ruksha, Tikshna, Snigdha Guna acts as Agni Dipaka and also Amapachaka. Tikta Rasa and Laghu, Ruksha Guna helps in reducing the colonic motility and thereby helps in reducing Sashleshma Mala Pravrtti.

Thus, drug Kallingadi Churna acts on disease GrahaniRoga and helps to overcome disease process and provides beneficial action.

CONCLUSION

- Both Punarnavadi Churna and Kallingadi Churna were having significant improvement on all the parameters like Muhu Baddha-Drava Mal Pravritti, Durgandhit-Picchil Mala Pravritti, Udgar Pravritti. Trishna, Arochak, Vidah and on other
- associated symptoms of the disease *Grahani*.
- On the basis of all results obtained in the clinical study it can be concluded clearly that *Punarnavadi Churna* is more effective in comparison to the *Kallingadi Churna* in providing better cure to the patients of *Grahani*.

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PUNARNAV: JAN-FEB 2017: VOL: 5, ISSUES: 1

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TABLE 1 CONTENTS OF PUNARNAVADI CHURNA

Sr.No	Name of Drug	Latin Name	Parts used	Proportion	
1	Punarnava	Boerhavia diffusa Linn.	Root, Whole Parts, Seeds	1 Part	
2	Marich	Piper nigram Linn.	Fruit	1 Part	
3	Sharpunkha	Tephrosia purpurea Pers.	Root, Whole Parts Kshara	1 Part	
4	Vishva	Zingiber officinaleRosc.	Tuberous root	1 Part	
5	Chitrak	Plumbago zeynalica Linn.	Skin of Root	1 Part	
6	Pathya	Terminalia chebula Retz.	Fruit	1 Part	
7	Chirbilva	Holoptelea integrifolia Planch.	Skin	1 Part	
8	Bilva	Aegle marmelos Corr.	Root, Skin, Leaves, Fruit	1 Part	

PUNARNAV: JAN-FEB 2017: VOL: 5, ISSUES: 1 Page No: 09

TABLE 2 CONTENTS OF THE KALLINGADICHURNA

Sr.No	Name of Drug	Latin Name	Parts Used	Proportion
1	Kutaja	Holarrhena antydysentrica Linn.	Bark, flower, fruit, and seeds	1 Part
2	Haritaki	Terminalia chebula Linn.	Fruit	1 Part
3	Ativisha	Aconitum heterophyllum Wall.	Tuberous root	1 Part
4	Vacha	Acoru scalamus Linn.	Rhizome	1 Part
5	Hingu	Ferula narthex Boiss.	Exedute	1 Part
6	Sauvarchala	Black salt (eng)	Whole Part	1 Part

TABLE 3 EFFECT OF THERAPY ON CHIEF COMPLAINS

SYMPTOMS	Group	N	Me	ean	Mean	% Relief	W	P
STMITIOMS			BT	AT	Diff			
MuhuBaddha/ Drava Mala	A	15	3.47	0.80	2.67	76.92	120	<0.001
Pravriti	В	15	3.33	0.53	2.80	84	120	<0.001
Durgandhit/Picchila	A	15	2.33	_0.20_	2.13	91.43	120	<0.001
Mala Pravriti	В	15	3.20	0.53	2.67	83.33	120	<0.001
Madhura /Tikta/ Amla	A	5	1.80	00	1.80	100	15	0.063
Amta UdgaraPravriti	В	4	2.25	00	2.25	100	10	0.125
Trishna	A	11	2.00	00	2.00	100	66	< 0.001
Irisiina	В	11	2.64	0.09	2.55	96.55	66	< 0.001
Arochaka	A	6	3	0.33	2.67	88.89	21	0.031
Arochaka	В	8	2.63	0.50	2.13	80.95	36	0.008
Vidaha	A	2	3	0	3	100	3	0.5
v taana	В	2	3.5	0	3.5	100	3	0.5

TABLE 4: EFFECT OF THERAPY ON ASSOCIATED SYMPTOMS

SYMPTOMS	Group	N	Mean		Mean	% Relief	W	P
SYMPIOMS			B.T.	A.T.	Diff			
Pad Shotha	A	5	1.80	0	1.80	100	15	0.063
Paa Shoina	В	3	1	0	1	100	6	0.250
TamPravesha	A	10	2.6	0.3	2.3	88.46	55	0.002

PUNARNAV: JAN-FEB 2017: VOL: 5, ISSUES: 1 Page No: 10

	В	6	2	0	2	100	21	0.031
4 - 1	A	13	2.31	0.077	2.08	90	91	< 0.001
Aalasya	В	13	2.23	0.077	2.15	96.55	91	< 0.001
T	A	7	1.14	00	1.14	100	28	0.016
Jwara	В	5	1.4	00	1.4	100	15	0.063
D	A	7	1	00	1	100	28	0.016
Praseka	В	4	2.5	00	2.5	100	10	0.125
Dala Valaria	A	14	2.36	0.43	1.93	81.82	105	< 0.001
Bala Kshaya	В	15	2.4	0.4	2	83.33	120	< 0.001

TABLE 5 :EFFECT OF THERAPY ON HAEMATOLOGICAL PARAMETERS OF THE PATIENTS OF *GRAHANI*

Lab.	Group	Mean	score	% of Change	X	S.D.±	S.E.±	't'	P
Findings(n=15)		B.T.	A.T.						
Hb (gms. %)	A	10.33	10.79	4.52↑	0.47	0.42	0.11	4.30	< 0.001
	В	10.1	10.56	4.55↑	0.46	0.42	0.11	4.22	< 0.001
ESR(mm/hr)	A	51.33	39.33	23.38↓	12	12.51	3.23	3.71	0.002
	В	53.07	40.93	22.86↓	12.13	10.68	2.76	4.40	< 0.001
WBC	A	7360	7166.67	2.63↓	193.33	1068.02	275.76	0.70	0.495
	В	7466.67	7273.33	2.59↓	193.33	839.61	216.79	0.89	0.39

TABLE 6: GROUPS WISE OVERALL EFFECT OF THERAPY ON 30 PATIENTS OF GRAHANI.

	Gr	Group-1		oup-2
Results	No.	%	No.	%
Complete remission (100%)	04	26.67	04	26.67
Marked improvement (76-99%)	09	60	09	60
Moderate improvement (51-75%)	02	13.33	02	13.33
Mild improvement (26-50%)	00	00	00	00
Unchanged (= &< 25%)	00	00	00	00