

RESEARCH ARTICLE ISSN 2456-0170

EFFECT OF CHARAKOKTA KANDUGHNA TAILA KARNAPICHU AND KASHAYA INTERNALLY ON KARNAKANDU (OTOMYCOSIS) - A PILOT STUDY

¹Dr Jeeva P ²Dr Veerayya R Hiremath ³Dr Shashikala K. ⁴Dr Gururaj N ¹P.G. Scholar ²Professor and HOD ³Associate Professor ⁴Assistant Professor Dept. of ShalakyaTantra, SJGAMC&H, Koppal, Karnataka, India

ABSTRACT

Karnakandu is one among karnaroga and also a nidana for many other karnarogas. It is characterized by severe itching sensation due to vitiated kaphadosha. This condition can be correlated to otomycosis, which is fungal infection of ear canal characterized by intense itching, pain in the ear and ear blockage. The incidence of fungal infection is high in hot and humid climate of tropical and subtropical countries. In otomycosis, treatments consist of thorough aural toileting and application of antifungal agents. The rate of recurrence is high. In Ayurveda Nadisweda, Vamana, Dhumapana, Teekshna Nasya and all other Kaphahara chikitsa are advocated for management of karnakandu. Since sthanika chikitsa is more efficacious in jatrurdhwagatavyadhi, developing kanduhara karnapurana or pichu was of high need. With these ideas a taila and kashaya prepared out of charakokta kandughna gana dravya was used in management of karnakandu as pilot study. The present study was done on 20 patients of Karnakandu, who were divided into two equal groups. Group-A was treated with charakokta kandugna Taila Karnapichu with kandugna kashaya internally for 7 days and Group-B with only Charakokta kandugna tailakarna pichu for 7 days. The signs and symptoms were studied before and after treatment. The data of both the groups were collected according to the objective and subjective Parameters. From the above study it can be concluded that patients treated with charakokta kandugna Taila Karnapichu with or without kandugna kashaya internally showed marked relief of symptoms. But the group with kandughna kashaya internally showed better result and absence of recurrence.

KEYWORDS: Karnakandu, Otomycosis, Kadughnataila, kandugna kashaya, Karnapichu

INTRODUCTION

characterized by severe itching sensation and inflammation in the ear canal caused due to vitiated kapha dosha¹. This condition can also be due to *vatakapha dushti*². Otomycosis is the fungal infection of ear canal characterized by intense itching, pain in the ear and ear blockage.It is seen in hot and humid climate of tropical and subtropical countries. Secondary fungal

growth is also seen in long term usage of topical antibiotics for treatment of otitis externa or media³.

The prevalence of otomycosis is 5.2% all over world and 9% in India. Further 5-25% of otitis externa cases are due to otomycosis. The 90% of fungal infections involve Aspergillus species and the rest Candida species⁴.

The treatment of *Karnakandu* includes Nadisweda, Vamana, Dhuma, Nasya and Kaphahara chikitsa⁵. Otomycosis is treated with aural toileting by syringing, suction or mopping and application of antifungal agents like Nystatin, clotrimazole and povidone iodine. This should be continued for a week even after apparent cure to avoid recurrences⁶.

Since *sthanika chikitsa* is more efficacious in *jatrurdhwagata vyadhi*, developing *kanduhara karnapurana* or *pichu* was of high need. With these ideas a *taila* and *kashaya* prepared out of *Charakokta kandughna gana dravya* was used in management of *karnakandu*as pilot study⁷.

AIMS AND OBJECTIVES

- -To assess the efficacy of *charakokta kandugna taila karnapichu* with *kandugna kashaya* internally in the management of *Karnakandu* (Otomycosis).
- -To assess the efficacy of *Charakokta kandugna taila karnapichu* in the management of *Karnakandu* (Otomycosis).
- -To compare the efficacy of both.

MATERIALS AND METHODS

Source of Data:

OPD and IPD of Shalakaya Tantra, SJGAMC & Hospital, Koppal.

Methods of collection of data:

20 Patients affected with *karnakandu*, fulfilling inclusion criteria and willing to take part in study were selected and randomly divided in to two equal groups of 10 patients each.

Inclusive Criteria:

Patients with clinical features of *Karnakandu* (Otomycosis).

Exclusion criteria:

Patients of Otitis media and other varieties

of otitis externa.

Study design:

Open labeled clinical comparative study.

- -Group A treated with *charakokta kandugna taila karnapichu* and *kandugna kashaya* (15millilitres two times a day before food) internally for 7 days.
- -Group B treated with *charakokta kandugna tailakarnapichu* for 7 days.

Duration:

- Treatment period: 7 days
- Follow-up period: 14 days.
- Total study Duration 21 days

Assessment criteria:

Assessment was done based on the subjective and objective parameters of *karnakandu* and otomycosis before, during and after treatment.

Subjective parameters:

- Karnakandu.
- Earache.
- Ear blockage.

Parameters	BT	4 th Day	8 th Day	14 th	21 st Day
Karnakandu					
Earache					

Objective parameters:

- -Otoscopic examination (Fungal mass).
- -Tuning fork test (Rinne test)
- -Intensity of pain assessed using visual analogue scale.

Objective parameters	BT	4 th	8 th Day	14 th	21 st
Otoscopic examination					
Tuning fork test					

GRADING OF PARAMETERS: (SUBJECTIVE)

Karnakandu & Karnashoola: VAS

visual analogue scale reading	Grading
No pain,No itching	0
Mild	1
Moderate	2
Severe	3

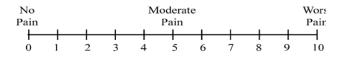
Objective Parameters:-

Otoscopic examination	Grading
No fungal mass	0
Half packed EAC with fungal	1
Full packed EAC with fungal	2

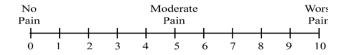
Tuning fork test	Grading
AC>BC	0
BC>AC	1

Visual Analogue Scale

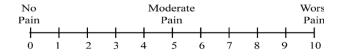
Day 1



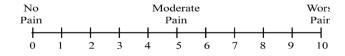
Day 4



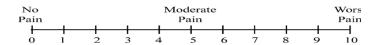
Day 8



Day 14



Day 21



No Pain(0); Mild(1-3); Moderate(4-6); Severe (7-10)

Preparation of *Charakokta Kandugna Taila*⁸:

Taila and kashaya contains ten drugs viz.

Ingredients	Botanical Name	Quanti ty for kalka (grams)	Quantity for Kashaya(grams)
Chandana	Santalum album	6	25
Nalada	Vetiveria zizanoides	6	25
Krutamala	Cassia fistula	6	25
Naktamala	Pongamia pinnata	6	25
Nimba	Azadiracta indica	6	25
Kutaja	Holarrhena antidycentrica	6	25
Sarshapa	Brassica campestris	6	25
Madhuka	Glycyrrhiza glabra	6	25
Daruharidra	Berberis aristata	6	25
Musta	Cyperus rotundus	6	25

• *Tilataila* (250 ml)

Kalka for taila preparation:

6grams of fine powders of each drugs mixed with cold and made it into paste.

Kashaya for taila preparation:

25 grams of coarse powder of each drugs mixed with four litres of water, boiled (in *mandagni*) and reduced into one litre.

Preparation of Charakokta Kandugna taila:

Taila was prepared by taila murchana methods.

Kandugna taila has tikta, madhura, katu, kashaya rasa and Ruksha, Laghu, Tikshna, mrudu, guru, snigdha Guna, Sheetaveerya (chandana, nalada, krutamala, nimba, kutaja, madhuka, musta) & UshnaVeerya (naktamala, sarshapa, daruharidra), KatuVipaka (except krutamala and madhuka are madhura vipaka), and tridosha shamaka and kandugna,krimighna⁹.

Preparation of Charakokta Kandugna kashaya:-

Kashaya was prepared from 15 grams coarse powder of above mentioned drug mixed with 240 milliliters of water (reduced to 60 ml).

Observations and Results:

Complete relief: 100 % relief from

symptoms
Partial relief:

Marked: Up to 75%;

Moderate: 50 % - 75%;

Mild : 25 % - 50%

No relief: Without relief 0%

Table No: 1 showing the Distribution of Age

Age in	Grou	ps	Percentage		
Years	A	В	Grou p A	Grou p B	
20-35	08	07	80%	70%	
36-50	02	02	20%	20%	
51-65	00	01	0%	10%	

Table No: 2 showing the Distribution of Gender

Gender	Groups		Percentage		
	A B		Group	Group	
			A	В	
Male	06	05	60%	50%	
Female	04	05	40%	50%	

Table No: 3 showing the Distribution of Economic Status

	Groups		Percentage		
Economic Status	A	A B Group A		Group B	
Poor	08	07	80%	70%	
Middle class	02	02	20%	20%	
Rich	00	01	0%	10%	

Table No: 4 showing the Distribution of Duration

	Gro	ups	Percentage			
Duration	A	В	Grou p A	Grou p B		
<10 days	06	07	60%	70%		
10-30 days	03	02	30%	20%		
>30 days	01	01	10%	10%		

Table No: 5 showing the Distribution of Sides affected

	Gro	ups	Percentage			
Sides affected	A	В	Grou p A	Grou p B		
Unilateral	09	10	90%	100%		
Bilateral	01	00	10%	0%		

Table No: 6 showing the Distribution of Signs and Symptoms

S.No	Signs & Symptoms	No. of Patient Before Treatments		Before		Not relie	eved	Percentage Of Relief	
		Group A	Group B	Group A	Group B	Group A	Group B	Group A	Group B
1	Itching in ear	10	10	10	10	00	00	100	100
2	Earache	10	10	10	10	00	00	100	100
3	Aural blockage	10	10	10	10	00	00	100	100
4	Fungal mass	10	10	10	10	00	00	100	100

Table No: 7 showing the Distribution of Signs and Symptoms

Duration	Groups		Percentage	
	A	В	Group A	Group B
Complete relief	10	10	100%	100%
Partial relief	00	00	0%	0%
No relief	00	00	0%	0%

RESULT

The signs and symptoms such as itching in ear, earache, aural blockage and presence of fungus in ear canal were studied before and after treatment. Result showed marked relief of symptoms in both groups. But the group with *kandughna kashaya* internally showed better result and absence of recurrence.

DISCUSSION

Karnakandu is characterized by severe itching sensation due to vitiated kapha dosha. This condition can be correlated to otomycosis, which is fungal infection of ear canal characterized by intense itching, pain in the ear and ear blockage. In otomycosis, treatments consist of thorough aural toileting and application of antifungal agents. The rate of recurrence is high. In Ayurveda

Nadisweda, Vamana, Dhumapana, Teekshna Nasya and all other Kaphahara chikitsa are advocated for management of karnakandu. Charakokta kandugna Taila contains 10 drugs viz. chandana (Santalum album), Nalada (Vetiveria zizanoides), Krutamala (Cassia fistula), Naktamala (Pongamia pinnata), Nimba(Azadiracta indica), Kutaja (Holarrhena antidycentrica), Sarshapa (Brassica campestris), Madhuka Daruharidra (Glycyrrhiza glabra), (Berberis aristata), Musta (Cyperus rotundus). Kandugna taila and kashaya has tikta, madhura, katu, kashaya rasa and Ruksha, Laghu, Tikshna ,mrudu, guru, snigdha Guna, Sheetaveerya (chandana, nalada, krutamala, nimba, kutaja, madhuka, musta) & Ushna Veerya (naktamala, sarshapa, daruharidra), Katu *Vipaka* (except krutamala and madhuka madhura vipaka), and tridosha shamaka and kandugna. Kandughna Taila and kashaya act on karnakandu mainly in two ways Shodhana and Ropana which help in proper healing of kandu, acts as in Snehana, Shodhana. Ropana, kandughna and krimighna.

The present study was done on 20 patients of *Karnakandu*, who were divided into two equal groups. Group-A was treated with *Charakokta kandugna Taila Karnapichu* with *kandugna kashaya* internally for 7 days and Group-B with only *Charakokta kandugna taila karnapichu* for 7 days. The signs and symptoms such as itching in ear, earache, aural blockage and presence of fungus in ear canal were studied before and after treatment. Result shows marked relief of symptoms in both groups. But the group with *kandughna kashaya* internally showed better result and absence of recurrence.

CONCLUSION

Kandughna Taila and kashaya act on karnakandu mainly in two ways Shodhana and Ropana which help in proper healing of kandu, acts as in Snehana, Shodhana, Ropana, kandughna and krimighna. The signs and symptoms such as itching in ear, earache, aural blockage and presence of fungus in ear canal were studied before and after treatment. Result shows marked relief of symptoms in both groups. But the group with kandughna kashaya internally showed better result and absence of recurrence.

REFERENCES

- 1. Sushruta; Sushruta Samhita, Uttaratantra; English Translation by Prof. **Priyavrat** Sharma, Published by Chaukambha Visvabharati: Varanasi; Oriental **Publishers** Distributors; & Varanasi; Reprint-2010; VolIII; U.T. Chp. no/sl.no-20/3-5,11;p.no-234-237.
- 2. *Madhava Nidana; Roga Vinishcaya* of *Madhavakara* by Prof.K.R.Srikantha Murthy; Published by Chaukambha Orientalia: Varanasi; 8thedn;Cha.no/sl.no-57/6;p.no-193.

- 3. Textbook Diseases of Ear, Nose & Throat by PL Dhingra, Shruti Dhingra; Published by Elsevier, a division of Reed Elsevier India Private Limited; Reprinted 2012; Printed by Thomson Press (India); pg.no:58.
- 4. Alford BR. Head and Neck Surgery, Department of Otolaryngology, Baylor College of Medicine, Houston, Texas. Mugliston T, O'Donoghue G. Otomycosis: A continuing Problem. J LaryngolOtol 1985; 99: 327-33.
- 5. Sushruta Sushruta: Samhita, Uttaratantra; English Translation by Prof. Priyavrat Sharma; Published by Chaukambha Visvabharati: Varanasi: Oriental **Publishers** & Distributors: Varanasi; Reprint-2010; Vol III:U.T. Chp.no/sl.no-21/56;p.no-247.
- 6. Textbook Diseases of Ear, Nose & Throat by PL Dhingra, Shruti Dhingra; Published by Elsevier, a division of Reed Elsevier India Private Limited; Reprinted 2012; Printed by Thomson Press (India); pg.no:58.
- 7. Agnivesha; Charaka samhita; Sutra stana by Dr.Ram Karan Sharma; Published by Chaukambha Sanskrit Series Office: Varanasi; Reprint-2011; Vol I; Cha.no/sl.no-4/14; P.no-91.
- 8. Sharangadhara; Sharangadhara samhita; Madhyama Khanda by Dr. G. Prabhakar Rao; Chaukambha Publications: Varanasi; Reprint: 2016;Cha.no/sl.no-9/1-17;p.no-160-162.
- 9. *Dravyaguna Vijnana* study of essential medicinal plants in Ayurveda by Dr.J.L.N.Sastry; Published by Chowkhamba Orientalia, Varanasi; Printed by Charu Printers, Golghar, Varanasi; Vol II; Drug

no.5,16,20,27,31,39,71,104,113,119; pg. no: 54, 594,123,152,167,201,329,478,551, 558.

CORRESPONDING AUTHOR

Dr. Jeeva P

PG Scholar, Department of Shalakya tantra, Shree Jagadguru Gavisiddeshwara Ayurveda Medical College, Koppal. Karnataka-India Email: jeeva13111@gmail.com

Source of support: Nil

Conflict of interest: None Declared

Cite this article as

Dr. Jeeva P : Effect of Charakokta kandughna taila karnapichu and Kashaya Internally on Karnakandu (Otomycosis) - A Pilot Study; ayurpub; V(5): 1618-1624