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Critical review of effect of Karnadhupana in Karmasrava W.S.R. to Chronic Suppurative Otitis Media

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Abstract:

Ayurveda is a branch of science which deals with maintenance of health and prevention of diseases of the body. Ayurveda is divided into eight branches and Shalakya tantra is one of them. Ear is a very precious organ. It is mentioned as one of the Panchendriya. It is also one of Bahirmukh srotas. It is important for hearing and maintaining equilibrium balance of the body. Vata and Kapha dosha vitiation causes Karnasrava. It has symptoms like discharge through ear, pain in ear, itching in ear and hearing loss. Karnasrava is disease mentioned in 28 karnarogas is Sushruta samhita. Karnadhupana is described as treatment for Karnasrava. In present study, karnadhupana with guggulu and Vacha churna was highly significant in Karnasrava at p value 0.001.

Keywords: Karnasrava, guggulu, vacha, karnadhupana

Introduction:

Ayurveda is a science which deals with maintenance of health and prevention of any disease in the body.¹ Our Ayurveda has eight branches and it is called as Ashtang Ayurveda. ² Shalakya Tantra is a branch of Ashtang Ayurveda which deals with maintaining health and treating disease of head and neck area.

Karna is described in Nine Bahirmukh Srotasas and also it is one of the Panchendriya. ³ It is called as Shrotrendriya. Ear has two main functions in our body – Receiving of sound and maintenance of equilibrium posture in the body, Karnasrava is one disease mentioned in 28 Karnarogas described in Sushrut Samhita. ⁴ Acharya Vagbhava did not mentioned Karnasrava , but he mentioned treatment part of Karnasrava chikitasa.

Our lifestyle has been changed to unhealthy, due to mainly malnutrition, unhealthy diet, smoking, alcohol consumption, drug abuse, stress, sedentary lifestyle and pollution. This factors are mainly responsible for upper respiratory tract infection which leads to chronic supportive otitis media (Karnasrava). Chronic otitis media is commonly occurring disease in today's ear according to modern science. A clinical fracture of Karnasrava resembles with otorrhoea. This disease can result in hearing loss, so early treatment is necessary for this disease. It is treated by antimicrobial drug having systemic as well as local effect in modern science. These antibiotics has chances of their resistance after some time, adverse effects on the host including allergic reactions, immune suppression, hypersensitivity reactions etc. The prevalence rate varies in different area of world. It is more in South East Asia, Estern Pacific and Africa region. According to WHO, its occurrence is 65 to 330 million individuals. India has highest count in South East Asia region, about 7.8 % in school going children in Tamilnadu observed in survey.⁵

9-O Acharya Sushruta has mentioned dhupan karma with Rajvrukshadi and Surasadi gana aushadhi for Karnasrava. We can avoid the adverse effects of modern medicines by use of this dhupana karma. Various dhupana karma are described for karnadhupana. Here for this study, guggulu and Vacha churna have been selected for this study. ⁶ So this study is an attempt to view the role of karnadhupana in the management of Karnasrava W.S.R. to Chronic Suppurative otitis media.

* Aim:

To evaluate the effect of Karnadhupana in the management of Karnasrava W.S.R. to Chrinc Suppurative Otitis Media.

Objective:

1. To evaluate the effect of Karnadhupana in the management of Karnasrava.

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- 2. To observe any side effects of *Karnadhupana*.
- 3. Detail study of *Karnasrava &* chronic Suppurative Otitis Media.

Material and Methods :

> Selection criteria:

Inclusion criteria:

- 1. Patients between age group of 20 to 65 years were selected.
- 2. Patients with Karnasrava were selected.
- Patients will be selected irrespective of sex, marital status, religion, education and economical status.
- 4. Patients willing for trial.
- 5. Patients of *Karnasrava* having following symptoms-
- Karnasrava (ear discharge)
- Karnakandu (itching)
- Karnashula (Earache)
- Karnabadhirya (hearing loss)
- Exclusion criteria:
- 1. Patients having serious congenital anomalies.
- 2. Patients suffering from serious systemic illness.

Karnasrava :

Karnasrava is a disease mentioned in Karnaroga vidnyaniya under 28 Karnarogas by Acharya . Sushruta in Sushrut Samhita. ⁷ Acharya Charaka described Karnasrava as a symptom under four types . due to vitiation of Vata dosha. Acharya Charaka has described the treatment of Karnasrava as Vrana . Chikitsa. Various treatments prescribed for Karnasrava in Ayurveda and for keeping ear clean are karnapurana (instillation of drug in ear), Karna dhupana (fumigation of ear), Pramarjana (ear cleaning), Shirovirechana, Dhavan and Prakshalan.

Drug:

For this Karnadupana, Vacha churna and guggulu are used.

-	The properties of each and is as follows.									
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	mus	ta			hna	k
	Linn.					

Investigations:

All routine investigations of blood and urine were done for all the cases. Along with this, few specific investigations were also performed.

- A. Blood examinations
 - CBC with ESR

BSL (R)

- B. Urine examination : routine and Microscopic
- C. Some specific Investigations
 - IgG for tuberculosis

Monteux test

Biopsy for fistulous tract on suspected case of tubercular fistula.

- HIV for AIDS
- D. Radiological investigations X ray chest PA view

Methods:

Total 10 patients were selected and treated.

Treatment:

- Karnadhupana with Vacha churna and Guggulu
- **Duration** 7 days
- Follow up after 7 days

Procedure -

Poorvakarma – The patient was asked to sit on chair comfortably. The place should has sufficient light and devoid of dust in air. The affected air was cleaned thoroughly with Aural suctioning and then mobbed with Jobson's horn probe coated with cotton prior to dhupana karma every time.

Pradhan karma – The patient was asked to relax completely on the chair and fumed are transferred into the ear with dhupana tantra. Karna dhupana yantra has two ends which are funnel shaped. One end is for the passage of dhuma into the ear canal and other end was in directly contact filled with smoked from Shuddha Guggulu and Vacha churna. Dhupana was given for 5 minutes.

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4)Karnat	oadhirya (hea		ALC: NO			A T	U	0	0	U	
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		0	Waii	syr	nptom	ns of	Karnasra	<i>va</i> is as fo	llows		
• Observ	ation and Res	aults:		jou	1110						
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The response of treatment was observed and recorded on a case paper and data collection by clinical study.

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va								
Karnaka	1	1.9	0.6	0.4	0.1	9.0	P<0.	H.S
ndu	0			55	43	9	001	
Karnash	1	1.8	0.9	0.3	0.1	8.9	P<0.	H.S
ula	0			22	01	1	001	
Karnaba	1	1.8	0.5	0.4	0.1	9.0	P<0.	H.S
dhirya	0			55	43	9	001	
(BT- Before	e tre	atment	, AT-	After	treatm	nent, S	S.D- Sta	indard

Deviation, S.E.- Standard Error of mean)

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K disease. If rukaha, ti is mainly reduces t Guggula	ssion: arnasrava is t can occur at a kshana , vishad y Vatakaphasl he discharge helps for Va dhaka, vranaroj	iny age. Guggu l guna with Usl hamak and ti from ear. Usl atashamana an	llu has laghu, nna veerya. It his property hna guna of nd acts as	1) Dr Su 20 2) Tr Ni Da Va	<i>rasthan</i> by C 16 edition, <i>Adh</i> kamaji J. <i>Sus</i> bandhsangraha Ihanacharya, C ranasi, ,1994 e	Chaukhambha Pra <i>nyaya</i> 1, <i>shlok</i> no. <i>shrut Samhita of</i> commentar Chaukhambha Sa dition, <i>Sutrasthan</i>	<i>Sutrasthana</i> with y of Shri mskrit Prakashan ,
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octanone passed sig	of the methance gnificant antiba acteria and mo	olic extract of cterial activity	guggulu gum against gram	5) A TC W	THE MAN	I CONVENTION AGEMENT OF L REFERENCE	
V	acha also has			A	PPURATIVE 'URVEDIC	OTITIS PERSPECTIVE	MEDIA: AN C, May 2019,

Katu veerya and it is vataghna, kaphahara. It reduces discharge from ear. Vacha is also krumighna, Jantughna. It is used in Kaphavataroga.

Karnadhupana \square is highly significant in *Karnasrava* at p value 0.001. The statistical analysis is done by paired 't' test.

✤ Conclusion:

Karnasrava is a disease caused due to vitiation of *Vata kapha dosha*. It shows symptoms like discharge from ear, itching in ear, pain in ear and hearing loss. Karmadhupana is mentioned for karnasrava. Guggulu and Vacha has the antibacterial activity. They also reduces the discharge through ear by decreasing Vata and Kapha disha. There is decrease in assessment value between before Treatment and after Treatment. It is highly significant at p value 0.001.

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