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# A SINGLE CASE STUDY ON AYURVEDIC MANAGEMENT OF KARNANAADA (TINNITUS)

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#### **ABSTRACT**

Ayurveda focuses on maintaining health and treating ailments. The sense organs are the most vital organs in the body. The senses are known as Indriya in Ayurveda. Numerous safety precautions to maintain ear health are recommended by several Acharyas. There were several therapy options available to treat ailments even then. One of the ear ailments is Karnanaada. One of its symptoms is the ability to hear noises like bheri, mridanga, etc. Karnanaada is ver much similar with Tinnitus. According to epidemiological data, this condition affects 38% of those under 40 and 68% of people over 40. Tinnitus is a serious condition that can even be fatal. By affecting hearing loss, restless sleep, and irritability, it lowers quality of life (QoL). The patient in this case study displayed tinnitus symptoms. By adopting Snehana and Brihmana Chikitsa, he is cured. With this therapy, the patient's tinnitus was reduced by 70%.

KEYWORDS- Karnanaada, Tinnitus, Hear noises, etc.

#### INTRODUCTION

A karna-roga is studied under Urdhwa Jatru-gata Vikara is Karnanaada. The words "Nada" describe something that causes the ear to hear rhythmic noises. The vitiated Vata dosha in Shabdavaha either penetrates other srotas or is surrounded by the Kapha dosha. Karnanaada is the method by which Srotas produces different noises in the ears, such Bheri, Mrudanga, Shankha, etc.2. The polluted Vayu gets caught in the Shabdavaha Srotas and causes the different sounds in the ear that are referred to as Karnanaada.<sup>3</sup>

The following are the aetiological factors that lead to the development of the Karnanaada: Pratishyaya (Rhinitis), Avashyaya (Exposure to cold wind currents), Jalakreeda (Swimming), Karna Kanduyana (constant rubbing or irritating the ear with finger or any other instruments), Mithya yoga of the Shastra (improper usage of instrument for diagnosis and treatment on Vata is one of the three doshas that is thought to be a crucial factor in the development of Karnanaada.

#### **CLINICAL FEATURE-**

Karnanaada is a distinct illness. It can also be found in other disorders' As Lakshana. No Poorvaroopa for Karnanaada has been explained, however it is a Poorvaroopa of numerous Roga, such as Apasmara, Vataja Unmada, and Grahini.

#### **ROOPA**

Nanavidha Shabdan - Different sorts of sounds heard in Shabdavaha Srotas. Vividhaan shabda like Bheri, Mrudanga, Shankha, Bhrungaara, Kauncha, Mandoora, Tantri, and Saamturyasvanam are heard in Shabdavaha Srotas. According to Acharva Haritha, several doshas can contribute to karnanaada, and the noises that result from the illness depend on which dosha is present. Pitta dosha is responsible for noises like burning flute. If one hears thunder, Kapha dosha is to blame. It has also been described as the lakshana of several illnesses, including Vataja jwara, Vataja arsha, Pandu, Krimija Shiroroga, and Sannipataja jwara.

#### **SAMPRAPTI**

According to Nidana, Hetus causes Vata to become vitiated. The Shabda vaha Srotas become the residence of Vata. It results in Karnanaada and the perception of various sounds.

# **TINNITUS**

Tinnitus is the perception of any sound that arises unilaterally or bilaterally out of nowhere and is unrelated to any external auditory or electrical stimuli. Such a perceived sound might be anything from a soft background noise to a sound that can be heard over loud outside noises. It impairs quality of life and causes a variety of physical problems as well as emotional anguish, cognitive anxiety, intrusiveness, auditory and perceptual impairments, and sleep disruptions. With or without hearing loss, the symptoms might be unilateral or bilateral and sound like ringing, hissing, whistling, humming, buzzing, chirping, or clicking noises.<sup>7</sup>

#### **CLINCAL FEATURES**

There are two types of the tinnitus i.e. Subjective and Objectives types Tinnitus. Tinnitus patients may hear phantom sounds in one ear, in both ears, and in your head. The phantom sound may ring, buzz, roar, whistle, hum, click, hiss, or squeal. The sound may be soft or loud and may be low or high pitched. Ghritapana (the use of ghee), Rasayana (rejuvenation), Avyayama (no exercise), are the primary therapeutic modalities for Karna Roga.

Case report

Age - 27 years

Occupation – Student

Gender - Male

Religion - Hindu

Consulted - Shalakya Tantra OPD of Sri Krishna AYUSH University, Kurukshetra, Haryana.

# **Chief complaints**

Ringing and whistle noise since 2015. First starts in left ear then in 2019 starts in Rt. Ear. He was found to be having tinnitus & deafness and treated by Karnapoorana with Bilvadi Taila with oral medicine. He had procedure done only for 7 days & now is getting relief & is being discharged with following medicine.

# History of present illness

The subject was apparently normal 6 years ago. Then she gradually developed ringing sound in the left ear for 6 years. Later she noticed reduced hearing in left ear from past 3 months associated with reduced sleep. She approached allopathic doctor, there ear drops were given still she didn't find any relief and with all these complaints she approached the Shalakya Tantra OPD to get Ayurvedic Treatment.

# History of past illness

No history of Nasal allergy. Not a known case of DM and Hypertension.

**Personal history** 

Appetite- normal

**Bowel** - normal

Urine - normal

**Sleep** - normal

#### **Vitals**

• Respiratory rate: 20/min

• Regular temperature: 98.6F

• Blood pressure: 120/80 mm of Hg

• Pulse: 75/min

# Physical examination

- Pallor No pallor
- Lymphadenopathy No lymphadenopathy

#### Ashtavidha Pareeksha

• Nadi: 75/min

• Mutra: 3-4 times/day

• Mala: Prakruta

• Jihwa: Nirama

• Shabda: Prakruta

• Sparsha: Prakruta

• Drik: Prakruta

• Akriti: Madhyama

# Systemic examination

- CVS S1, S2-Normal
- CNS- Conscious and Oriented
- RS- AEBE Clear
- GIT- Normal

# **Examination of ear**

- Pinna Normal
- Pre and post-aural area Normal
- External auditory canals Normal
- Tympanic membranes No discharge, no perforation, bilateral TM is intact
- The oral cavity proper, Larynx and Nose Normal

# Qualitative test for hearing by tuning fork

- Rt. Ear Hearing sensitivity within Normal Limit
- Lt. Ear -Mild sensitivity with high frequency hearing

# Diagnosis - Karnanaad and Karna-Badhirya

#### **Treatment modalities**

- Karnapoorana with Bilvadi Taila 3 drops TDS, after proper Snehana to pinna and surrounding areas of ear for 15days.
- ➤ Dashamularishta + Aswagandhaarishta 30 ml -0 30 ml BD for 15days
- Sarivadi Vati 2 BD after food with Go-Dugdha for for 15days
- Cap. Ksheerabala- 1 BD for 15days
- Anu Taila Pratimarsha Nashya for 15days
- Jivantyadi Choorna- 5 gm BD with milk for 15days
- Cap. Palsineuron 1-0-1 for 15 days

Sl. No.	Date	Karma	Karma Time	Dravya	Nirgamana	Remark
		W. Car		34	Duration	
1.	24-8-22	Karna	12.15 pm	Bilva Taila	15 min	Samyak
		Poorana				Yoga
2.	25-8-22	Karna	11.30 am	Bilva Taila	15 min	Samyak
		Poorana				Yoga
3.	26-8-22	Karna	11.15 am	Bilva Taila	15 min	Samyak
		Poorana				Yoga
4.	27-8-22	Karna	11.50 am	Bilva Taila	15 min	Samyak
		Poorana				Yoga
5.	28-8-22	Karna	11.40 am	Bilva Taila	15 min	Samyak
		Poorana				Yoga
6.	29-8-22	Karna	11.00 am	Bilva Taila	15 min	Samyak
		Poorana				Yoga
7.	30-8-22	Karna	11.00 am	Bilva Taila	15 min	Samyak
		Poorana				Yoga

# **FOLLOW-UP**

Sl. No.	Date	Chief Complaint /Follow- up	Treatment
1.	23-8-22	C/O	Rx
		Ringing & Blezzing noise sinch	➤ Karnapoorana with Bilwadi
		2015	Taila 3-3-3 (3 drops TDS) -15
		• First Start in Lt. ear in 2019 then	days
		start in Rt. Ear	> Dashamularishta +
		N/H/O -DM Type II/ HTN/	Ashwagnadhrishta -30 ml -0 -
		Typhoid	30 ml (30 BD) -15 days
		G/H -Appetite – Normal	Sarivadi Vati with Go- Dugdha
		Bowel – Normal	-2 -0-2 (2 BD) -15 days
		Urine -Normal	➤ Cap. Ksheera Bala – 1-0-1 (1
		Sleep -Normal	BD) -15 days
		PTA REPORT ANALYSIS	Cap. Palsineuron 1-0-1 (1 BD)
		Rt. Ear- Hearing sensitivity within	-15 days
		Normal Limit	Anu Taila Pratimarsha Nashya
		Lt. Ear -Mild Sensorineural with	-Local Application (L/A) -15
		high frequency hearing	days
			➤ Jivantyadi Choorna -5 gm-0-
			5gm (5gm BD) with Go-
			Dugdha -15 days
2.	24-8-22	C/O	Advice –
	At 9.30am	Patient general condition stable	CST for 1 day
		No fresh complaints	
		Vitals Stable	
3.	25-8-22	C/O	Advice –
	At 9.45am	Patient general condition stable	CST for 1 day
		No fresh complaints	
		Vitals Stable	
4.	26-8-22	C/O	Advice –
	At 10.00am	Patient general condition stable	CST for 1 day
		No fresh complaints	
		Vitals Stable	
5.	27-8-22	C/O	Advice –
	At 10.00am	Patient general condition stable	CST for 1 day
		No fresh complaints	
		1	

		Vitals Stable	
6.	28-8-22	C/O	Advice –
	At 9.45am	Patient general condition stable	CST for 1 day
		No fresh complaints	
		Vitals Stable	
		P/A -NAD	
7.	29-8-22	C/O	Advice –
	At 9.45am	Patient general condition stable	CST for 1 day
		No fresh complaints	
		Vitals Stable	
		P/A -NAD	
8.	30-8-22	C/O	Advice –
	At 9.15am	Patient general condition stable	CST for 1 day
		No fresh complaints	
		Vitals Stable	
		P/A -NAD	

#### **RESULTS**

After 8 days of Nasya and 7 days of Karnapoorana, the patient started to experience symptom alleviation. At the time of release, the tinnitus had diminished by three weeks and there had been a subjective improvement in hearing. The patient's hearing improved, notably during phone conversations, and his tinnitus diminished (it was only sometimes detectable, and only in extremely quiet environments). He also started getting better sleep. After receiving follow-up care for three months, the patient's hearing and tinnitus both significantly improved. During the follow-up period, his internal medications, barring tablets, were also continued.

**Pathya** (**Do's**) - Suggested to consume a light, warm, and easily digested meal and to give the sense organs enough rest.

**Don'ts for Apathya-** include not exercising, taking a head wash, talking too loudly, drinking cold water, and being exposed to chilly winds.

# **AUDIOLOGICAL EVALUATION**

# 01/12/2015

# **AUDIOLOGICAL DIAGNOSIS**

RT EAR -Normal hearing with mild dip at 4 KHZ only

LT EAR -Sloping Sensorineural (SN) hearing

# ADVICE -

- Care of Rt. Ear
- **ENT** consultation
- Precaution chart already done

#### GOVERNMENT MEDICAL COLLEGE & HOSPITAL, CHANDIGARH SPEECH & HEARING REHABILITATION UNIT DEPARTMENT OF ENT HEARING EVALUATION AGE/SEX: AUDIOGRAM No: DIOMETER: TESTED BY: FERRED BY: \_\_ CLINICAL DIAGNOSIS: \_ FREQUENCY IN HERTZ (Hz) 1000 2000 8000 4000 750 1500 3000 Right -10 T.M. 0 10 Weber: ABC 30 AUDIOGRAM KEY 40 (RED) (BLUE) Air Conduction 50 Δ 60 No Response O 70 Masked 80 Bone Conduction 90 Masked No Response Unmasked 110 Masked 120 Sound Field AUDIOGRAM

SPEECH AUDIOMETRY	PTA	SRT	DS
Right ear	13 dB	dB	4/4
Left ear	g 17. ats	dB ;	1/6

AUDIOMETRY	Tympanogram	Reflex
Right ear		
Left ear		

AUDIOLOG	SICAL	. DIAGNOSI	S:-
(B)	: 1	Journa	r.l.
(2)	5	Stopu	i
RELIABILIT	Y (of re	sponses):	0

hg = mild dip at 4kHz only.
SN hg lon.

In officers



# 12/FEB/2020 -

#### **Table 1-TEST CONDITION**

	250HZ	500HZ	1KHZ	2KHZ	4KHZ	6KHZ	8KHZ
L. AC HTL	35	30	20	90	95		
L. BC HTL	5	10	15	40	60		

# AUDIOLOGICAL INTERPRETATION

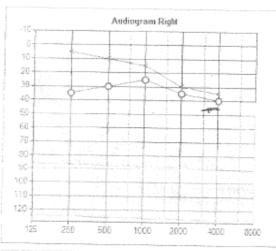
Moderate conductive high frequency Hearing loss

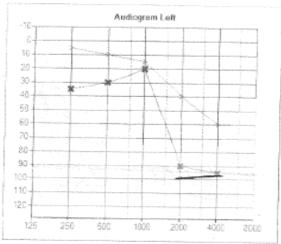
# VIRK HOSPITAL

S.C 0 16,17, SECTOR 17, KURUKSHETRA, HARYANA, INDIA, 136118 Tel; 7027791516, 01744-251516, Fax: Fax Email: virkhospitalkkr@gmail.com Web; Web

ld: 20778 Name: gourav Date of Birth: 12/Feb/20 Gender: Male







	250Hz	500Hz	1kHz	2kHz	4kHz	6kHz	8kHz
L - AC HTL	35	30	20	90	95	-	-
e e e e	100	, 27.5	- 27		40		
L - BC HTC	6	10	15	δņ	60	-	-
					7.		
Loss		□ Con	ductive	C Sens	orineurali	F1 N	lixed

Right	Audio Key	Left
0	AC - HTL	X
-91	AC - MCL	100
	AC - UCL	m
	BC - HTL	-
	FF - HIS.	S

#### Special Test

	500Hz	1kHz	2kHz	4kHz
SISI				
ABLB				

	1210(8)	Left
SRT		-
SDS		-
UCL		

# Audiological Interpretation

Recommendation:

#### 23/12/2022 -

#### **TUNNING FORK**

RE

LE

Rinne -

+VE

+VE

#### Weber -

# PROVISIONAL DIAGNOSIS

Right Ear – Hearing sensitivity within normal limit

Left Ear – Mild complaint with Sensorineural complaint

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04/10/2022 - Reduced hearing sensitivity in Left ears

# **Table 1-TEST CONDITION**

	PTA	SRT	SIS	MCL	UCL
RE	16.66 dB	dB	%	dB	dB
LE	36.66 dB	dB	%	dB	dB

# **TUNNING FORK**

LE RE

Rinne – +VE +VE

Weber -

# PROVISIONAL DIAGNOSIS

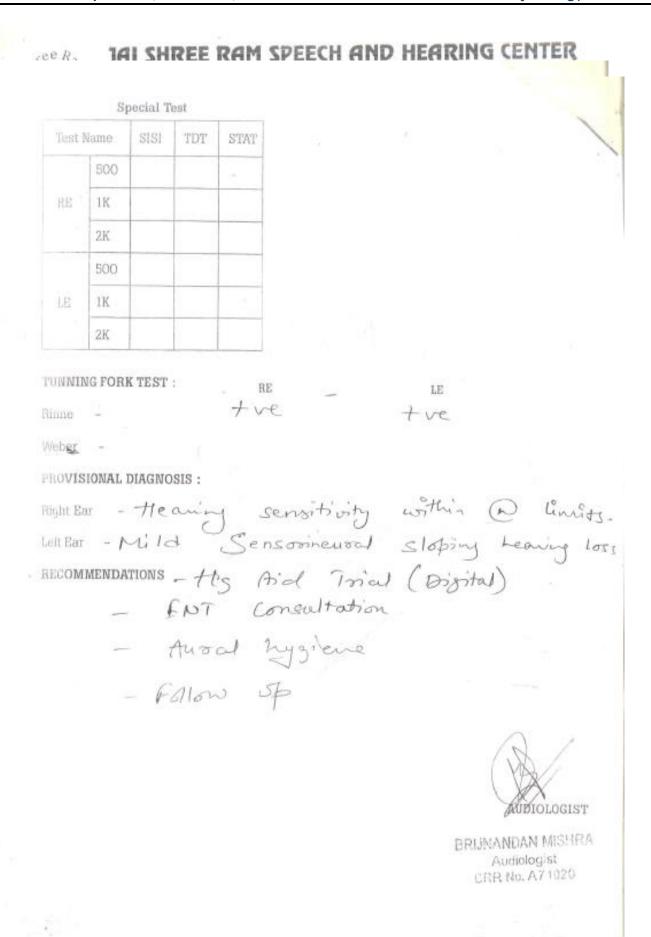
Right Ear – Hearing sensitivity within normal limit

**Left Ear** – Mild sensorineural sloping hearing loss

# RECOMMENDATION

- ENT consultation
- Try Aid Trial (Digital)
- Aural Hygiene
- Follow- up





03/MAY/2023 – Reduced hearing sensitivity in both ears

# **Table 1-TEST CONDITION**

	PTA	SRT	SIS	MCL	UCL
RE	16.66 dB	dB	%	dB	dB
LE	33.33 dB	dB	%	dB	dB

# **TUNNING FORK**

RE LE

Rinne -+VE

Weber -

# PROVISIONAL DIAGNOSIS

Right Ear – Hearing sensitivity within normal limit

Left Ear – Mild sensorineural with high frequency hearing loss

# RECOMMENDATION

- **ENT** consultation
- Try Aid Trial
- Aural Hygiene
- Follow- up

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141 CHREE RAM SPEECH AND HEARING CENTER

#### **DISCUSSION**

In the science of Ayurveda, disease prevention is given more significance than simply treating existing illnesses. An illness called Karnanaad is brought on by vitiated vata. There are several reasons listed that contribute to the development of illness. The science of Ayurveda places greater importance on preventing disease than it does on curing symptoms. Vitiated vata causes a condition known as Karnanaad.8 There are a number of factors described that influence the onset of sickness. As three particular Hetus for Karnanaada, Jalakreeda, Karnakandu, and Mithya Yoga of Shastra. Additionally at fault are Ratrijagarana, Ati-Vyayama, Pramitashana, and others. Poor nutrition causes Dhatukshaya, which ultimately causes Vata Prakopa, which causes Karnanaada when Vata enters the Shabdavaha Srotas. The patient hears Bheri, Mridanga, and other sounds.

The similarities between the clinical symptoms of tinnitus and Karnanaada suggest a possible connection. An ear-ringing or tapping noise is a symptom of tinnitus. Numerous conditions, such as stress, loud noise, hypertension, poor nutrition, insufficient sleep, decreased immunity, etc., can cause tinnitus. Although there is no complete cure for the disorder Karnanaada, its symptoms can be controlled with a range of procedures and drugs. 10 Prior to treating the ailment, it is crucial to consider about implementing preventative measures. It's important to motivate patients to lead healthy lifestyles, including a good diet and enough sleep. The root cause must be addressed first. In Ayurveda, patients may receive treatment using a variety of methods and drugs. Because of its significant effects on Vata dosha, Snehana karma is regarded as the best cure for Vataja diseases like Karnanaada.

#### MODE OF ACTION

Ksheerabala, which is regarded as the greatest Rasayana and is claimed to have the qualities of Indriya prasadana, Jeevan, and Brimhana. Additionally, on a regular basis will assist in achieving dridha indriva and longevity.<sup>11</sup>

Karnapoorana- performs the Vatashamaka and improves the ability of normal hearing. According to Vagbhata and Yogaratnakara, who also considered the mixed character of deafness, sarshapataila was utilized for the Karnapoorana. Sarshapataila demonstrates teeksha guna, Ushna Veerya, and kapha vata hara action. 12

### Treatment Karnapoorana was administered along-side

- Bilwa Taila: Karnapoorana, three courses, for seven days in each ear, with a three-day break between each
- Poorva Karma (Pre-operative procedure): At this stage, Mrudu Abhyanga is performed using hot fomentation and tila taila on the post-auricular region and lateral surface of the face.
- **Pradhana Karma** In this step, Bilwa Taila is heated to a lukewarm temperature and lukewarm oil is poured into the external auditory canal for up to 10 minutes (100 matrakala).
- **Doses-** 10-12 drops in each canal.

Ashwagandha - Because Ashwagandha (Rasayana, Balya, and Brumhana) is a health tonic, it can stop the inner ear's deteriorating effects of aging. It is employed as an adaptogen, a chemical that is thought to improve the body's capacity to withstand various kinds of stress. Similar to other adaptogens, Ashwagandha is said to boost immunity, balance cholesterol levels, and enhance a specific organ (the cochlea and hearing capabilities). All of these qualities work to increase the inner ear's blood flow and lessen the patient's tinnitus' sharpness.

**Bilwa Taila** - Property owned by Vata Kaphahara belongs to Bilwa Taila. It is referenced in every traditional Ayurvedic literature. In order to maintain good hearing and balance function, it is theorized that Bilwa Taila aids in the absorption via the epithelial tissue of the external ear canal and tympanic membrane. Drug diffusion via (Rasa & Rakta) Shabdavaha Sira into deeper tissues. "Kedarakulya Nyaya" claims that Karnapoorana may enhance the blood flow to the ear initially. Due to the effects of Karnapoorana, Kapha and Vatashamana may rectify the microcirculation, keeping the ability to hear normally and alleviating ear pain (Karnanada).

#### **CONCLUSION**

This study unequivocally demonstrates that tinnitus and hearing impairment would significantly improve with the conventional line of therapy, and there were no side effects during the course of the treatment. As a result, the goal of this research is to present a management plan for psychologically bothersome tinnitus that is helpful in symptom alleviation and also improves quality of life.

# **CONFLICT OF INTEREST -NIL**

#### **SOURCE OF SUPPORT -NONE**

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