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MANAGEMENT OF KARNANADA (TINNITUS) BY AYURVEDA APPROACH: A CASE STUDY

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ABSTRACT:

Tinnitus, a persistent auditory disorder, affects millions worldwide. Conventional treatments, including medications, sound therapy and cognitive behavioural therapy, often provide insufficient relief. Tinnitus poses a significant challenge to clinicians due to its complex pathophysiology and high recurrence rates. In Ayurveda, tinnitus resembles the condition known as "Karnanaada" or "KarnaKshveda," characterized by an imbalance of Vata and Pitta doshas. Tinnitus is marked by symptoms such as unwanted sounds (ringing, buzzing, or hissing), hearing loss, ear fullness, anxiety, and stress.This case report presents a 53-year-old female patient with complaint of ringing in ears diagnosed as Tinnitus and Karnanda according to Ayurveda on 20th June 2024, treated effectively with Ayurvedic medicines and lifestyle modifications. Significant improvements were observed in symptoms and quality of life after 90 days of treatment. Ayurvedic approaches, focusing on dosha balance, diet, and stress management, offer a promising complementary therapy for managing tinnitus.

Keywords: Ayurveda, Detoxification, Karnanada, Raktamokshana, Tinnitus

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INTRODUCTION

Tinnitus, a pervasive auditory disorder characterized by the perception of unwanted sounds, affects approximately 15% of the global population, impacting significantly on quality of life. Despite advancements in conventional treatments, including pharmacological interventions, sound therapy, and cognitive behavioural therapy, many patients continue to experience persistent symptoms, highlighting the need for alternative approaches.ⁱ

Unilateral tinnitus can also result from chronic exposure to loud noise, acoustic trauma, or semicircular canal dehiscence. Bilateral tinnitus is most associated with age-related hearing loss, noise exposure. acoustic trauma, or otosclerosis. Additionally, individuals who are currently using or have previously used ototoxic medications-such as high-dose acetylsalicylic acid, nonsteroidal antiinflammatory drugs, aminoglycoside antibiotics (e.g., gentamicin), loop diuretics (e.g., furosemide), and chemotherapeutic agents (e.g., cisplatin, valproic acid, quinine)-may experience bilateral tinnitus. Furthermore, poor sleep and excessive caffeine consumption can also contribute to tinnitus. Ayurveda, the ancient Indian system of medicine, offers a unique perspective on tinnitus, categorizing it under "Karnanaada" or "Karna Kshveda." This traditional knowledge system emphasizes the interplay between bodily humors (doshas), dietary factors, and lifestyle habits in the pathogenesis of disease. Ayurvedic interventions, focusing on dosha balance, stress management, and natural therapies, may provide a complementary solution for tinnitus management.ⁱⁱ

By examining the therapeutic potential of Ayurveda in tinnitus management, this research seeks to:

1. Provide new insights into the pathophysiology of tinnitus from an Ayurvedic perspective

2. Evaluate the clinical effectiveness of Ayurvedic interventions

3. Explore the feasibility of integrating Ayurvedic approaches into conventional treatment protocols

Madhavnidana have explained the etiological factors of tinnitus $^{\rm iii}$

Table 1: Causative factors or Hetu of Tinnitus asper Ayurveda are



Aetiological Factors Description				
	Exposure to cold winds can aggravate the condition.			
Jalakreeda (Swimming)	Swimming may lead to water exposure that affects the ear and exacerbates symptoms.			
-	Repeated rubbing or irritation of the ear with fingers or other objects can cause damage and discomfort.			
Mithya Yoga of the Shastra (Improper use of instruments)	lidiagnostic or treatment			
Atiyoga, Ayoga, Mithya Yoga of the Shabda (Improper sound sensations)	Inappropriate sound sensations (too loud, too soft, or absent) can disturb the ear and auditory function.			
Factors causing vata	Aggravation of Vata dosha through various factors can contribute to the condition.			
Vata dosha	Vata is considered the primary dosha responsible for causing Karnanada (ear- elated disorders).			

Roopa (Clinical Features)

Various types of sounds can be perceived in the auditory channels (*Shabdavaha Srotas*). These include a range of sounds such as:

- **Bheri** Drum sound
- Mridanga A type of traditional drum
- Shankha Conch shell sound
- **Bhrungara** Buzzing sound (often likened to that of a bee)
- Kauncha Horn sound
- Mandoora A type of stringed musical instrument
- **Tantri** Stringed instrument sound

• **Saamturya** – Melodious, harmonious sound These diverse auditory sensations are experienced within the auditory pathways. _FSSC 潘

Samprapti (Prognosis)

Adverse Factors (Nidana)

Vata Prakopa (Vata Aggravation)

Vitiation of Doshas - Primarily Vata Affects Shabda Vaha Srotasa

Impaired Functioning of Shabda Vaha Srotas (Auditory Pathways)

Manifestation of Symptoms (Roopa)

Hearing Various Sounds: Bheri, Mridanga, Shankha, Bhrungara, Kauncha, Mandoora, Tantri, Saamturya

Causative Factors (Hetu)

Improper Treatment, Exposure to Loud Noise, Chronic Irritants, Dryness, or Wind Exposure

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Karnanada (Tinnitus)

Case Presentation

Sex: Female Age: 53 years

Religion: Hindu Occupation: Housewife

Occupation: Housew

Chief Complaints

Ringing sound from left ear for a year

History of Present illness

The patient reported the onset of a ringing sound in her left ear approximately one year ago. Over the past months, she observed a worsening of the symptoms, which were now accompanied by disturbed sleep and increased irritability. Despite receiving ear drops and medications from allopathic doctors, she experienced no significant relief. As a result, she visited our clinic for Ayurvedic management.

History of past illnesses

No any H/o chronic illnesses No any H/o nasal allergies

Ayurvedic Assessment:

- Nadi: V^^^ P+++ Heat

- Jivha: Saam
- Mala: Twice a day
- Mutra: 4-5 times a day

- Shabda: Spashtata
- Sparsha: Anushna
- Druk: Prakrut
- Akruti- Madhyam
- Koshtha: Madhyam
- Nidra: Disturbed
- Deha Prakruti: Vata-Pitta
- Diagnosis: Karnanaada (tinnitus)

Examination of Ear

Right: Pinna Normal; EAC Clear; Tympanic Membrane intact; Rinne's Test AC > BC

Left: Pinna Normal; EAC Clear; Tympanic Membrane intact; Rinne's Test AC > BC

Ayurvedic Management:

Medicines: Medicines like Tablet Sukarna, Tablet Gulkacid, Tablet Harntone, Tablet Mahatikta, Tablet Divyashwasa Jivan were given to the patients. The ingredient their pharmacological actions are explained in table 2, 3,4,5 and 6

Table 2: Composition of Tablet Sukarna and its ingredients

Herb/Compoun d	Botanical Name	Properties
Anantmool	Hemidesmus indicus	Anti-inflammatory, Antioxidant, Blood purifier, Treats skin disorders
Loha Bhasma	Iron (ferrous oxide)	Hematinic, Improves blood circulation, Treats iron deficiency anemia
Pippali	Piper longum	Improves digestion, Respiratory stimulant, Antioxidant
Dalchini	Cinnamomu m verum	Antibacterial, Anti- inflammatory, Improves digestion and circulation
Ela	Elettaria cardamomu m	Antioxidant, Antimicrobial, Digestive aid, Reduces nausea
Tejpatra	Cinnamomu m tamala	Anti-inflammatory, Antioxidant,



Herb/Compoun d	Botanical Name	Properties	Herb/Compoun d	Botanical Name	Properties
		Antibacterial, Improves digestion Antimicrobial,	Bilva	Aegle marmelos (Bael)	Digestive aid, Antidiabetic, Antioxidant
Nagakesara		Antioxidant, Anti- inflammatory, Supports skin health	Amla	Emblica officinalis (Amla)	Immunomodulatory , Antioxidant, Supports skin and digestive health
Jati	^	Antioxidant, Anti- inflammatory, Supports immune system Calms mind,	Baheda	Terminalia belerica	Digestive aid, Antioxidant, Detoxifying, Supports respiratory health
Kamala	Nymphaea lotus	Antioxidant,	Haritaki	Terminalia chebula	Antioxidant, Digestive aid, Laxative
	Syzygium	Antibacterial, Analgesic,	Table 3: Composition of Tablet Gulkacid		
Lavang	0	Antioxidant, Improves digestion	Herb/Compoun d	11	Properties
Shuddha Loha	Ferrous	Hematinic, Improves iron levels, Treats iron deficiency anemia	Amalaki	Emblica officinalis	Antioxidant, Anti- inflammatory
	Sulfate		Shatavari	Asparagus racemosus	Antispasmodic, Aphrodisiac
Kalmegh	Pluchea lanceolata	Anti-inflammatory, Antioxidant, Improves digestive and respiratory	Yashtimadhu	Glycyrrhiza glabra	Antibacterial, Antithrombotic, Hepatoprotective
		health	Shalimali	Bombax malabaricum	Hypolipidemic, Antihyperglycemic
Yashtimadhu	Glycyrrniza	Antioxidant, Anti- inflammatory, Soothes digestive	Suvarna Gairik	Ferrum haematite	Cardioprotection
	glabra	and respiratory systems	Guduchi	Tinospora cordifolia	Antioxidant, Antipyretic
	Tinospora	Immunomodulatory , Antioxidant,	Bilva	Aegle marmelos	Antianemic, Antidysentric
Guduchi	Tinospora cordifolia	Antipyretic, Supports liver	Mukta Shukti Pishti	Ostrea edulis	Antiulcer
		health Anti-inflammatory,	Gulab Petal	Rosa centifolia	Anti-inflammatory, Antioxidant
Devdaru	Cedrus deodara	Antibacterial, Supports respiratory health	Shankha Bhasma	Turbinella rapa	Anti-inflammatory
][Khas	Andropogon	Anticonvulsant,



Herb/Compoun d	Botanical Name	Properties	Herb/Compound	Botanical Name	Properties
	muricatus	Antidepressant			Antihypertensive,
Nishottara		Hepatoprotective, Blood purifier			Anti- inflammatory
Chitraka	-	Antifungal, Wound healing		Iron (ferrous oxide)	Hematinic, Improves blood
Dalchini	Cinnamomu m zeylanicum	Antidiabetic	Loha Bhasma		circulation, Treats iron deficiency anemia
Ela		Antispasmodic, Antiseptic, Diuretic	Kesarav Pishti	Crocus sativus	Antioxidant, Aphrodisiac, Antidepressant,
Karchur		Antimicrobial, Antipyretic			Improves skin health
Sunthi	Zingiber officinale	Anti-inflammatory		Celastrus	Memory enhancer, Nervine
Tejpatra		Antidiabetic, Hepatoprotective	Malkangani	paniculatus	tonic, Improves cognition and
Yashad Bhasma	Zinc	Antidiabetic, Antiasthmatic			concentration Sedative, Nervine
Triphala	Emblica officinalis, Terminalia chebula,	Immunomodulatory , Antioxidant	Jatamansi	Nardostachys jatamansi	tonic, Antidepressant, Relieves stress and anxiety
	Terminalia bellerica			D	Memory enhancer,
Marich	Piper nigrum	Insecticidal, Antifungal, Antiviral	Brahmi	Bacopa monnieri	Antioxidant, Adaptogenic, Reduces anxiety and stress
Pippali	Piner Longum	Antimalarial, Hepatoprotective			Memory enhancer, Brain
Sajjikshara	Caroxylon ariffithii	Antimalarial, Hepatoprotective, Hypoglycemic, Antiallorgia	Shankhapushpi	Convolvulus pluricaulis	tonic, Improves mental clarity and focus
Table 4: Composition of Tablet Harntone an ingredients		Antiallergic, Antifungal		Combination	Improves digestion,
		t Harntone and its	Prabhakar Vati	of various herbominerals	strengthens immunity, Relieves cough
Herb/Compound	Botanical Name	Properties		Combination	and cold Enhances
Arjun	Terminalia arjuna	Cardiotonic, Antioxidant,	Trinetra Ras	of	immunity, Treats respiratory issues,



Herb/Compound	Botanical Name	Properties
		Antioxidant
Kamdudha Ras	Combination of herbominerlas	Reduces acidity, Treats gastritis, Calms pitta dosha
Mukta Pisthi	Pearl (natural)	Antacid, improves skin health, Reduces stress and anxiety
Praval Pishti	Coral (coral powder)	Antacid, improves bone strength, Supports healthy digestion
Swarnamakshik Bhasma	Mica and Gold combination	Rejuvenating, improves metabolism, Enhances immunity
Abhrak Bhasma	Mica (mineral)	Rejuvenating, enhances vitality, Strengthens bones and muscles
Akika Bhasma	Agate (gemstone)	Improves digestion, Enhances immunity, Antioxidant
Vamshalochan	Bambusa arundinacea (Bamboo)	Anti- inflammatory, improves vision, Supports respiratory health
Shuddha Shilajit	Asphaltum (Mineral pitch)	Rejuvenative, Energizing, Antioxidant, Improves vitality and stamina
Ashwagandha	Withania somnifera	Adaptogen, Stress reliever, Immune booster, Increases energy and vitality

Herb/Compoun d	Botanical Name	Properties
Amalaki	Emblica officinalis	Immunomodulator y, Antioxidant
Amlavetas	Garcinia pedunculata	Antihyperglycemic , Antimicrobial
Ativisha	Aconitum heterophyllum	Analgesic, Anti- inflammatory
Bibhitak	Terminalia bellerica	Immunomodulator y, Antioxidant
Daruharidra	Berberis aristata	Hypolipidemic, Antidiarrheal
Dhanyayas	Fagonia cretica	Antimicrobial, Antiseptic, Anti- inflammatory
Guduchi	Tinospora cordifolia	Antipyretic, Antispasmodic, Anti-inflammatory, Antioxidant, Anti- arthritic
Haridra	Curcuma longa	Antibacterial, Anti- fungal, Anti- inflammatory
Haritaki	Terminalia chebula	Antiviral, Antifungal, Antibacterial
Indravaruni	Citrullus colocynthis	Antimicrobial, Hypolipidemic, Antioxidant
Katuka	Picrorhiza kurroa	Antidiabetic, Hepato-protective
Kiratikta	Swertia chirayita	CNS Depressant Antiviral
Kutaja	Holarrhena antidysenteric a	Antibacterial
Murva	Marsdenia tenacissima	Antidiarrheal, Anti-inflammatory
Musta	Cyperus rotundus	Antipyretic, Antidiabetic

Herb/Compoun d	Botanical Name	Properties	Jivan and its ing	edients	ablet Divyashwasa
Nimba	Melia azadirachta	Anti-inflammatory, Antidiabetic	Herbs/Compoun d	Botanical Name	Properties
Padmak	Prunus cerasoides	Antipruritic, Anti- inflammatory	Sodii Muras	Sodium Chloride	Antiseptic, promotes
Parpat	Oldenlandia corymbosa	Antimicrobial		(Salt)	digestion, Reduces swelling
Patha	Cissampelos pareira	Antiasthmatic, Diuretic	Pippali	Piper longum	Improves digestion, Respiratory
Patola	Trichosanthes dioica	Laxative, Antipyretic	i ipputi	i iper iongum	stimulant, Antioxidant
Pipali	Piper longum	Anti-inflammatory			Digestive aid,
Saptaparna	Alstonia scholaris	Blood purifier, Antibacterial	Maricha	Piper nigrum	Antioxidant, Improves
Shatavari	Asparagus racemosus	Antispasmodic, Aphrodisiac			
Shvet Sarava	Hemidesmus indicus	Anti-inflammatory, Antihyperuricemic,	Sunthi	Zingiber officinale	Anti-inflammatory, Antioxidant, Improves digestion
			Hinga	Ferula	Antispasmodic, Anti-inflammatory, Treats digestive
Shvet Chandan	Santalum album	Antidysentery, Anti-ulcer		narthex	disorders
Trayamana	Gentiana kurroo	Hepatoprotective, Anti-inflammatory	Kantakari	Solanum xanthocarpu m	Antimalarial, Anti- inflammatory, Respiratory tonic
Ushira	Vetiveria zizanoides	Anticonvulsant		m Clerodendru	Antibacterial, Antiviral, Improves respiratory health
Vacha	Acorus calamus	Anticonvulsant, Antidepressant, Antihypertensive,	Kudzu	m serratum	
		Anti-inflammatory Bronchodilator,	Vasa	Adhatoda vasica	Bronchodilator, Anti-inflammatory,
Vasa	Adhatoda vasica	Antimicrobial, Anti-inflammatory,			Treats respiratory conditions
Yashtimadhu	Glycyrrhiza glabra	Antispasmodic Antibacterial, Antithrombotic	Yashtimadhu	Glycyrrhiza glabra	Antioxidant, Anti- inflammatory, Soothes digestive and respiratory systems
			Tulsi	Ocimum sanctum (Holy Basil)	Adaptogen, Immunomodulator y, Antioxidant,

Herbs/Compoun d	Botanical Name	Properties
		Stress reliever
Haritaki	Terminalia chebula	Antioxidant, Digestive aid, Laxative
Kachura	Alpinia galanga	Antibacterial, Anti- inflammatory, Digestive stimulant
Karkatshringi	Pistacia integerrima	Antioxidant, Antiinflammatory, Improves circulation
Dashamool	Combination of 10 roots, including:	Rejuvenative, Pain relief, Immune booster, Supports respiratory health
Shyonaka	Oroxylum indicum	Anti-inflammatory, Antioxidant, Supports cardiovascular health
Indrajao	Seeds of Holanaria antidysentric a	Antioxidant, Antidiabetic, Anti- inflammatory
Bilva	Aegle marmelos	Digestive aid, Antidiabetic, Antioxidant
Shalaparni	Desmodium gangeticum	Anti-inflammatory, Antioxidant, Treats digestive disorders
Vishala	Cintrullus colocynthes	Anti-inflammatory, analgesic,
Chirabilva	Holoptelea integrifolia	Anti-inflammatory, Immunomodulator y, Pain relief
Shalaparni	Dermodium gangeticum	Anti-bacterial, Anti-fungal, Treats respiratory ailments
Gokshura	Tribulus terrestris	Improves libido, Enhances strength, Antioxidant

2. Detoxification:

- Matra Basti (thrice a week for 2 weeks)

A procedure where 40ml Balada Tail administered through anal route.

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- Dhupana Chikitsa (inhalation therapy)

Fumes of combination of *Shunthi* (*Zingiber* officinale) Jeeraka (*Cuminum cyminum*), *Yavani* (*Trachyspermum ammi*) made to inhale one nostril at a time and was asked to exhale via mouth.

- Raktamokshana (4 sittings)

A process of bloodletting from the post auricular region (as required in this case)





3. Dietary Recommendations:

- Avoid milk, dairy, sour, salty, fermented foods
- Avoid white sugar, junk food, bakery products
- Avoid wheat/gluten, meat
- Emphasize vegetables (60%), protein (30%),

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carbohydrates (10%)

4. Lifestyle Recommendations:

Regular exercise, Yogasana (Shirshasana)Stress avoidance

After 2.5 months of treatment, the patient reported 80% relief from tinnitus symptoms.

Discussion:

Approximately 30% of experience population tinnitus sometime in their lives. This case demonstrates potential Avurvedic the of interventions managing in tinnitus. The comprehensive treatment plan addressed the patient's imbalanced doshas, reduced symptoms, and improved quality of life. According to Ayurveda, tinnitus can result from an imbalance in the Vata and *Pitta* doshas, often linked to disturbances in the Shiras (head region) and Karna (ear). Tinnitus may also be caused by Ama (toxins), Rasa (lymph), and *Rakta* (blood) vitiations.

- Vata Dosha imbalance: Excessive Vata can lead to dryness and instability in the ear and nervous system, causing ringing or buzzing sounds.
- **Pitta Dosha imbalance**: Excessive Pitta can create heat and inflammation, leading to a feeling of fullness, pressure, or noise in the ear.
- **Rakta and Rasa Dosha imbalance**: Poor circulation or toxins in the body can affect the auditory system, contributing to tinnitus.

Treatment in Ayurveda, therefore, focuses on pacifying these doshas, promoting detoxification, improving circulation, and rejuvenating the nervous and auditory systems.

Conclusion:

Tinnitus can be effectively managed by Ayurveda with the help of medicines like tablet Sukarna, tablet Gulkacid, tablet Harntone, tablet Mahatikta, tablet Divyashwasa Jivan, detoxification therapy like Matrabasti, Dhupan chikitsa and Raktamokshana along with dietary and lifestyle modifications. Ayurvedic medicine provides a comprehensive and holistic approach to managing tinnitus by addressing the root causes, whether they are related to dosha imbalances, stress, or poor circulation. The herbs and therapies used in Ayurveda not only alleviate the symptoms of tinnitus but also improve overall well-being and quality of life.

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