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॥ Jai Sri Gurudev ॥

# DHWANI

Official Newsletter from the Department of E. N. T.

Adichunchanagiri Institute of Medical Sciences

## From the Editor's desk

At the outset, let me convey my greetings from the E.N.T. Department. We are happy to present you with our latest newsletter, "Dhwani" and are very happy to present it to you. We welcome your valuable suggestions to help us to improve upon it in the future editions.

We would like to express our gratitude to the Principal, Dr. M. G. Shivaramu for inspiring us with his encouragement.

I would like to thank my colleagues and postgraduates and interns in the department for their support and contributions in bringing out this newsletter.

Dr. G. C. Ravi

Professor and H.O.D.

# Interesting Case Reports

## 1. AN INTERESTING CASE OF AMELOBLASTOMA

A 25 year old female presented to the outpatient department with swelling over right side of jaw of two year duration. Clinical examination revealed a large non tender non pulsatile bony hard 8cm X 5cm asymptomatic well demarcated swelling extending superoinferiorly from the right pretragal region to the lower border of the mandible and mediolaterally 1 cm from the right corner of the mouth to the right lateral border of the mandible.

CECT scan of the mandible revealed a very large expansile, multiloculated lesion involving the right body and ramus of the mandible. Though biopsy and histopathology were not suggestive of ameloblastoma, the history and clinical presentation, led us to the diagnosis of ameloblastoma.

Patient underwent right hemimandibulectomy was done including the coronoid and condylar region of the mandible. The defect created was reconstructed using stainless steel condylar plate and fibular graft.



Figure 1:Pre operative frontal view

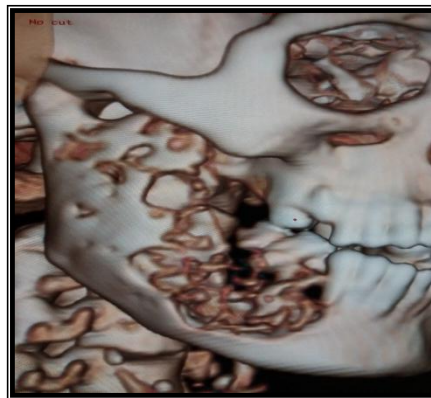


Figure 2:Three-dimensional CT showing sagittal view



Figure 3:Resected part of the mandible involving 2cm of normal bone

## 2. AN INTERESTING CASE OF SEPTAL SCHWANNOMA

A 36 year old male patient came with the complaints of right sided nasal obstruction which started 3 years back and gradually progressed with complete right nasal block since 2 years.

Anterior rhinoscopy revealed a pale pink mass which almost completely occupied the right nostril and pushing the septum towards opposite side (Fig.1). Left nostril was otherwise normal.

Plain CT PNS showed a well-defined mass occupying most of the right nostril arising from the nasal septum and septum was pushed to other side. Paranasal sinuses were normal.

Patient was taken up for endoscopic excision biopsy of mass as an elective procedure under general anesthesia. Intra-operatively mass found to be attached to right side of septum at the level of middle turbinate and tumor was well encapsulated. Mass was completely excised (Fig.2) endoscopically and the area of attachment was cauterized.



Fig-1: Endoscopic appearance of the tumor



Fig-2: gross appearance of the tumor after excision

# Facts About Human Nose



Human nose is a miracle organ. You like it or you hate it, you need to give your nose the props for its extraordinarily diverse powers. Not only does it define our appearance but it also performs many vital functions without which humans wouldn't have been humans. So, let us take a look at some very interesting and cool facts about human nose and find out if you knew about these facts.

## Interesting Nose Facts

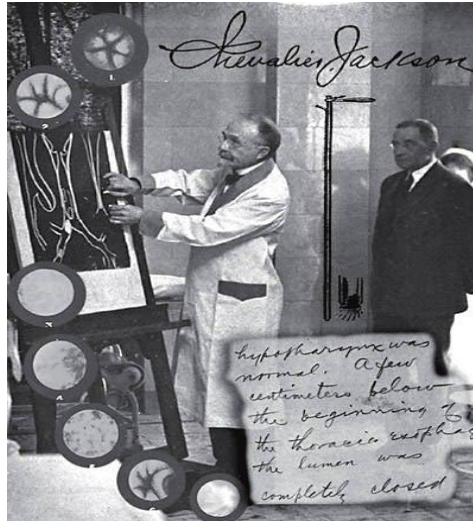
- There are at least 14 different nose types found in humans. This was found by Abraham Tamir, a Ph.D. holder and Chemical Engineering professor from Israel. He came to this conclusion after surveying 1,793 nose images.
- The shape of nose depends on the ethnic background of a person. Positions of lower and upper lateral cartilages and nasal bones actually define nose shape.
- Different people have different sneezing styles and these styles are genetically determined. So, the members of a given family will have similar sneezing styles which will be different than the sneezing styles of other families. During sneezing, irritants (that cause sneezing) are expelled at a speed of 100 miles per hour.
- In women, nose grows until the age of 15 to 17 and for men, it is 17 to 19.
- Nose droops and lengthens over time because of gravitational pull. This happens because elastin and collagen in nasal tip breaks.
- The best air filter in this world is human nose. Human nostrils are lined up with hair responsible for blocking germs and dust. Grooves in nasal cavity make air swirl like stream currents. This is when the inhaled air is moistened and warmed so that the sensitive tissues of the lungs can be protected. It is during this filtration process that

the mucus lining of the nasal cavity captures cold viruses and pollen which cannot be stopped by hair in nostrils.

- Mucus is produced by human sinuses and nose and it contains white blood cells and enzymes responsible for fighting infections. One quart mucus is produced daily.
- When someone inhales dry air, the air picks up moisture content from mucus. This makes the mucus pasty, which is known as snot or boogers.
- Inability to smell is scientifically known as anosmia.
- Inability to smell something correctly is known as dysosmia.
- Nose plastic surgery is known as rhinoplasty.
- Humans lose some of their smelling ability at the age of 65. At the age of 80, 50% of smelling capabilities are lost.
- Zinc deficiency in body can also lead to loss of smelling sense.
- Parkinson's disease, Alzheimer's disease and diabetes can also lead to loss of smelling sense.
- Human babies know their mothers by the scent of their mothers.
- Less of human brain is dedicated to smelling as opposed to animals.
- Women are capable of smelling more scents than men.
- The Maori tribe in New Zealand greet people by pressing their noses! Shaking hands as a gesture of greeting is not their type.
- Females have shorter noses compared to men.
- There are 10 million odor receptors present in human nose. These receptors are sensitive to odor or scent molecules that travel through or float in air.
- Nosebleed can be caused by picking nose, bumping nose, allergies, exercise, dry air or cold. Any of these factors can cause the septum (a thin cartilage between two nostrils) to break and hence, cause nosebleed.
- Human nose is made up of only 5 different types of muscles which are dilator naris anterior, dilator naris posterior, depressor septi, nasalis and procerus.

# • Chevalier Jackson

**Chevalier L. Jackson** (November 4, 1865 – August 16, 1958) was an American pioneer in [laryngology](#). He is sometimes known as the "father of [endoscopy](#)", although [Philipp Bozzini](#) (1773–1809) is also often given this [sobriquet](#). Chevalier Q. Jackson extracted over 2000 swallowed foreign bodies from patients. The collection is currently on display at the [Mütter Museum](#) in Philadelphia.



## Biography

Jackson was born in [Pittsburgh, Pennsylvania](#). He went to school at the Western University of Pennsylvania (now the [University of Pittsburgh](#)) from 1879 to 1883, and received his MD from [Jefferson Medical College](#) in [Philadelphia](#). He also studied laryngology in [England](#).

His work reduced the risks involved in a [tracheotomy](#). He essentially invented the modern science of [endoscopy](#) of the upper airway and [esophagus](#), using hollow tubes with illumination (esophagoscopes and bronchoscopes). He developed methods for removing foreign bodies from the esophagus and the airway with great safety — a huge advance for a condition that previously had often been a death sentence, with a high mortality from the object itself or from complications of chest surgery in the 19th century.

### RESEARCH ARTICLES

**1. A COMPARATIVE STUDY TO DETERMINE THE EFFICACY OF PIRACETAM OVER CARBAMAZEPINE IN THE TREATMENT OF IDIOPATHIC TINNITUS. Dr. Vijayendra Simha N, Ravishankar S.N**

#### 2. Original Research Article

**Traumatic perforation: determinants of conductive hearing loss Dr. Ravi K. S.\*, Ravishankar S. N. International Journal of Otorhinolaryngology and Head and Neck Surgery Ravi KS et al. Int J Otorhinolaryngol Head Neck Surg. 2017 Jul;3(3):xxx-xxx <http://www.ijorl.com> pISSN 2454-5929 | eISSN 2454-5937**

**3. The clinical enigma of a Midfacial Destructive lesion. Vinay Bhat, Ravishankar S.N**

**4. Nasal Septal Schwannoma – A Rare Cause for Unilateral Nasal Obstruction**

**Dr. Vinay S Bhat, Dr. Kiran T, Dr. Kanithavalli K**

## Workshops attended

1. VOICECON 2017 - Hands on thyroplasty
2. MEDENT HANDS ON FESS WORKSHOP, KOLLAM 2017
3. 4<sup>th</sup> International Head & Neck Symposium & Live Interactive Workshop on Transoral Robotic Surgery (TORS) & Transoral Laser Microsurgery (TLM)
4. 59<sup>th</sup> Temporal Bone Dissection Course – won the best temporal bone dissector award – MERF Chennai
5. Workshop on Head And Neck Oncosurgery and Hands – on Cadaver Laser Dissection Course - KMC Manipal
6. Training at Kidwai Memorial Hospital, Bangalore in the department of Head & Neck Oncology
7. Dr. G.C.Ravi ( Prof & H O D ), Vijayendra Simha ( Prof ), Dr. Vinay Bhat ( Asso. Prof ) and Dr. K.S. Ravi ( Asst. Prof ) attended Otology 25 workshop held at Bangalore ( 24-26 Feb 2017).
8. Dr. G.C. Ravi, chaired a session on “ A novel surgical approach to Preauricular sinus “.
9. Dr. G.C. Ravi was faculty at the PG orientation held at Bangalore
10. Dr. G.C. Ravi participated in the “ revised Basic Course workshop in Medical Education Technologies “ conducted by St. John’s Med College, from 8<sup>th</sup> to 10<sup>th</sup> May 2017, held at AIMS.

## E N T DEPARTMENT ACTIVELY PARTICIPATED IN Gnana Vignana

### Our Information Stall at the JnanaVignanaMela 2017



|| JAI SRI GURUDEV ||  
Sri Adichunchangiri Shikshana Trust @  
Adichunchangiri Institute of Medical Sciences  
B.G. Nagar, Nagamangala Taluk, Mandya District, Pin: 571448  
DEPARTMENT OF OTORHINOLARYNGOLOGY AND  
HEAD & NECK SURGERY

**THE DEAF CHILD**  
Children with profound (>90dB) or total deafness, fail to develop speech and often been termed as deaf mute or deaf and dumb.

**Chart 1 - Hearing Loss Etiology**

**Chart 1 - Diagnosis and Form of Communication.**

**Hearing loss grades**

Grade	dB Range	Description
Moderate	26-60dB	Can hear only if speaking loudly, lip-reading, sign language, hearing aid.
Severe	61-80dB	Can hear only if speaking very loudly, lip-reading, sign language, hearing aid.
Profound	Over 81dB	Can hear only if speaking very loudly, lip-reading, sign language, hearing aid.

**Hearing and Language Milestones**

It is important to monitor your child's speech and language development as well as responses to sound. The following provides a general guide to hearing and language milestones.

Age	Milestones
Birth to 3 months	Responds to familiar voices or sounds; Turns eyes or head toward sounds; Responds to speech by looking at speaker's face; Begins babbling.
4-6 months	Responds to name; Responds to simple speech; Babbling, "da", "mama", "dada".
7-12 months	Understands simple phrases; Responds to simple speech; Understands simple words like "hot", "cold", "no".
13-18 months	Understands simple words; Responds to simple speech; Responds to simple words like "hot", "cold", "no".
19-24 months	Understands simple words; Responds to simple speech; Responds to simple words like "hot", "cold", "no".
2-3 years old	Understands simple words; Responds to simple speech; Responds to simple words like "hot", "cold", "no".
3-4 years old	Understands simple words; Responds to simple speech; Responds to simple words like "hot", "cold", "no".

**Summary of Newborn Hearing Screening Protocols**

Protocol	Population	Primary Advantages	Limitations	Equipment	Costs
A: ABR only	NICU or VLB	Lowest false rate; High OAE only; OAE and ABR; ABR only; ABR only	Requires well-trained hearing team; OAE and ABR; ABR only; ABR only	AHR	Disposables cost more than OAE; ABR only; ABR only
B: OAE only	VLB	Lowest false rate; Most sensitive; ABR only; ABR only	Requires well-trained hearing team; OAE and ABR; ABR only; ABR only	OAE	Disposables and low false rate; ABR only; ABR only
C: Two Test OAE with ABR only if OAE is failed	VLB	Lowest false rate; Most sensitive; ABR only; ABR only	Requires well-trained hearing team; OAE and ABR; ABR only; ABR only	AHR + OAE	Disposables and low false rate; ABR only; ABR only
D: ABR and OAE or VLB	VLB and/or NICU	Lowest false rate; Most sensitive; ABR only; ABR only	Requires well-trained hearing team; OAE and ABR; ABR only; ABR only	AHR + OAE	Disposables and low false rate; ABR only; ABR only

**The real handicap of deafness is in the area of communication. It affects all aspects of development because of the role that communication plays in human life.**

**Communication & Language Deficiencies**

EMOTIONAL Development, SOCIAL Development, MORAL Development, SPIRITUAL Development, COGNITIVE Development.

**Normal Hearing**

**Department of ENT had organized a guest lecture on "VERTIGO SIMPLIFIED"**

**by Dr Srinivas, M.S (ENT), consultant ENT and Head and Neck surgeon,**

**on 4<sup>th</sup> May 2017**



**OUR FAMILY-DEPARTMENT OF ENT**

