Course Name: MEDICAL & SURGICAL NURSING

Meniere's Disease

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Introduction:-

In 1861 Prosper Meniere described a syndrome characterized by deafness, tinnitus, and episodic vertigo. He linked this condition to a disorder of the inner ear.

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Definition:-

It is a syndrome characterized by a tried of symptoms; attacks of incapacitating vertigo, Sensorineural hearing loss & Tinnitus.

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Incidence:-

It is usually occur in adulthood.

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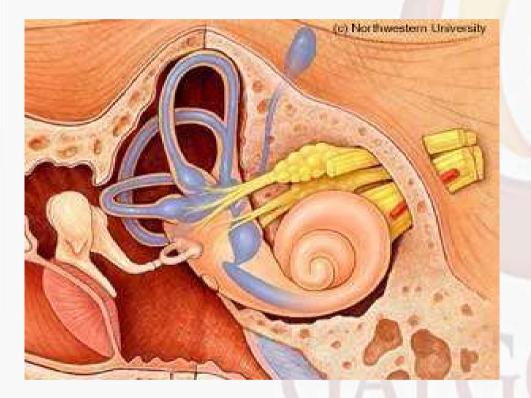
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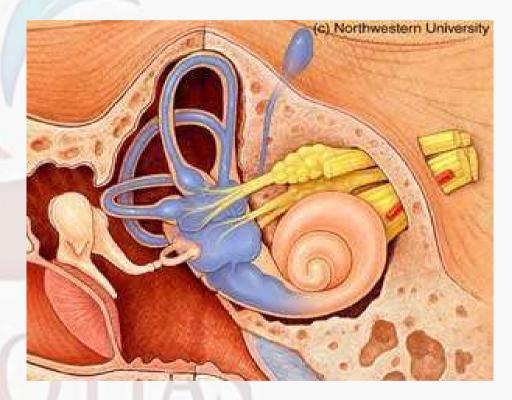
Etiology:-

- Unknown
- **Risk factor:-**
- Metabolic disorder
- Toxicity
- Allergies
- Emotional factor
- Circulatory disorder
- Anatomical abnormalities

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Normal membranous labyrinth

Dilated membranous labyrinth in Meniere's disease (Hydrops)

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Pathophysiology: -Due to eticlogical factors

Over production mendolymph Excessive

accumulation in inner ear

Increase pressure Rupture of

membra

Permanent loss auditory & vestibular function

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Clinical manifestation:

- Periodic episodes vertigo or dizziness
- Tinnitus
- Sensorineural Hearing loss
- Fullness/pressure
- Nausea, vomiting, Diarrhea
- Increase pulse rate
- **Diaphoresis**
- Disorientation

Diagnostic evaluation:-

History

Pattern of symptoms Association between hearing loss, tinnitus, and vertigo

Physical examination

Otoscopic examination UNIVERSITY Rinne (usually indicates that air conduction remains better than bone conduction) & weber test(Assess the bone conduction of sound with Tuning fork)

- Audiometric examination
- Electronystogmography(ENG)
- Audiometric brain stream response

Management:-

Goal

To Control vertigo Preserve hearing Stabilize tinnitus

Nonpharmacological management:-

- a. Low sodium diet
- b. Labyrinthine compensatory exercise
- c. Avoidance of caffeine, nicotine & alcohal

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Pharmacological management:-Vestibular suppressants (eg, meclizine)

- Diuretics (eg, hydrochlorothiazide) actually decrease the fluid pressure load in the inner ear.
- Vasodilator
- Anticholinergic
- Antiemetic eg. Trimethobenzamide 250 mg TDS
- Anti-inflammatory (steroids)

Surgical management:-

- Ototoxic ablation therapy (Transtympanic injection of antibiotics that are toxic to inner ear)
- Endolymhatic decompression
- Labyrinthectomy

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Complication:-

- Partial or total loss of hearing.
- Constant tinnitus
- Permanent balance disability
- 🛛 Fear, phobia
- Dehydration
- Decrease quality of life

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Trauma from falling

Nursing management: –
Impaired auditory sensory perception R/T altered state of the ear.

Anxiety R/tthreat to changes health status.

- Body image disturb R/T vertigo.

Risk for injury R/T altered mobility & vertigo.

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OTOSCLEROSIS

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DEFINITION

 Slow formation of spongy bone in the otic capsule, particularly at oval window

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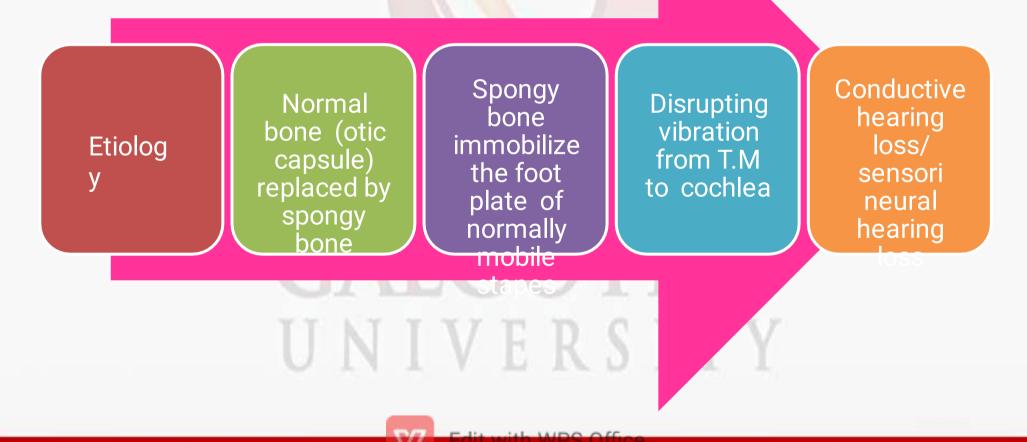
- Hereditary
- Age of onset : 15-35 years
- Pregnancy

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CAUSES

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Pathophysiology



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CLINICAL FEATURES

- Hearing loss
- Tinnitus
- Vertigo

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DIAGNOSIS

- H.C
- P/E
- Rinnes test bone conduction> Air conduction
- Otoscopy pinkish orange (schwartz sign)
- Audiometry 60 dB

MANAGEMENT



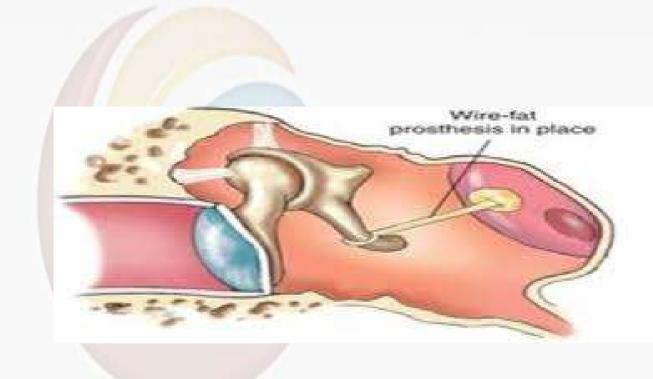
- Hearing aid
- Surgery

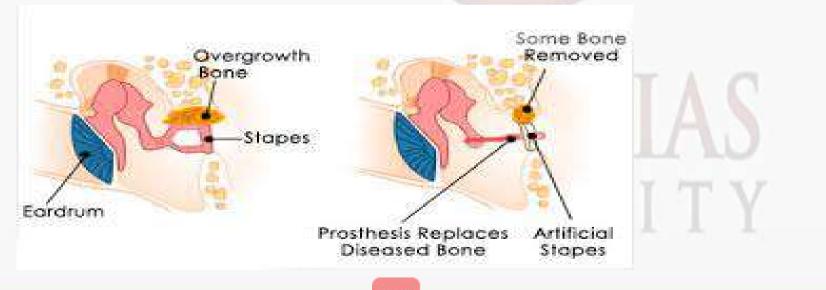
• stapedectomy (removal insertion of prosthesis to restore hearing of stapes) and Stapedotomy (creation of small hole in footplate of stapes) and insertion of wire and piston as a prosthesis to help restore hearing

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THANK YOU

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