



Rocky Mountain Ear, Nose & Throat Center, P.C.

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Non-otologic Causes of Dizziness (Central Vestibular Disorders)

DIRECTLY INVOLVE THE CNS

- **Head injury**
 - Central (brainstem) vestibular injury
- **Whiplash syndrome**
- **Migraine headaches**
- **Multiple sensory deficit syndrome**
- **Parkinson's disease**
- **Vestibular epilepsy**
- **Syringobulbia**
- **Multiple sclerosis**
- **Progressive supranuclear palsy**
- **Hydrocephalus**
- **Neurosyphilis**
- **Spinocerebellar degeneration**
- **Neoplastic lesions**
 - Brainstem tumor
 - Cerebellar tumor
 - Cerebral tumor

- **Cardiovascular lesions**
 - Aortic valve stenosis
 - Pericarditis
 - Dysrhythmia
 - Sick sinus syndrome
 - Sinus bradycardia
 - Atrial flutter fibrillation
 - Paroxysmal atrial tachycardia
 - Postural (orthostatic) hypotension
 - Idiopathic postural hypotension
 - Iatrogenic hypotension
 - ✓ Hypotensive (drug side effect)
 - ✓ Drug toxicity (medications)
 - ❖ Anticonvulsants
 - ❖ Psychotropics
 - ❖ Cardiovascular
 - ❖ Tranquilizers and sedatives
 - ❖ Analgesics and narcotics
 - ❖ Hypoglycemics

INDIRECTLY INVOLVE THE CNS

- **Cerebrovascular lesions**
 - Vertebrobasilar insufficiency
 - Subclavian steal syndrome
 - Transient ischemic attacks
 - Carotid artery stenosis
 - Carotid sinus syndrome
 - Stroke
 - Brainstem Hemorrhage
 - ✓ Wallenberg's syndrome
 - ✓ Anterior inferior cerebellar artery syndrome
 - ✓ Pontine hemorrhage
 - Cerebellar hemorrhage
 - Cerebral hemorrhage
 - Vasculitis
 - Temporal arteritis
 - Lupus cerebritis
- **Metabolic disorders**
 - Hyperventilation syndrome
 - Hypoglycemia
 - Diabetes mellitus
 - ✓ Insulin overdose
 - ✓ Oral hypoglycemic medication
 - Reactive hypoglycemia
 - Pancreatic tumor (hyperinsulinemia)
- **Endocrine disorder**
 - Thyroid disorders
 - Hypothyroidism
 - Hyperthyroidism
- **Hematopoietic disorders**
 - Anemia
 - Hyperviscosity syndrome
 - Polycythemia rubra vera
 - Waldenstrom's macroglobulinemia

(CONTINUED ON BACK)

Otologic Causes of Dizziness *(Peripheral Vestibular Disorders)*

- **Endolymphatic hydrops (Meniere's disease)**
- **Perilymphatic fistula (spontaneous, traumatic, iatrogenic)**
- **Mastoid/middle ear disease**
 - **Cholesteatoma**
 - **Otosclerosis (otosclerotic inner ear syndrome)**
 - **Paget's disease temporal bone**
- **Neoplasm temporal bone**
 - **Acoustic neuroma (vestibular schwannoma)**
 - **Meningioma**
 - **Glomus tumor (multiple para adrenal ganglioma)**
 - **Glomus tympanicum**
 - **Glomus jugulare**
 - **Facial nerve tumor**
 - **Facial nerve neuroma**
 - **Facial nerve fibroma**
 - **Carcinoma ear**
 - **Metastatic tumor**
- **Cupulolithiasis (benign paroxysmal positional vertigo)**
- **Vascular compression syndrome internal auditory canal (8th cranial nerve)**
 - **Trauma temporal bone**
 - **Labyrinthine concussion**
 - **Temporal bone fracture**
- **Infectious**
 - **Acute otitis/mastoiditis**
 - **Labyrinthitis**
 - **Vestibular neuronitis**
 - **Tuberculosis**
 - **Herpes Zoster oticus (Ramsay Hunt syndrome)**
 - **Otosyphilis**
- **Immune-related disorders inner ear**
 - **Autoimmune inner ear disease**
 - **Cogan's syndrome**
 - **Wegener's granulomatosis**
 - **Temporal arteritis**
 - **Systemic lupus erythematosus**
 - **Rheumatic fever**
 - **Rheumatoid arthritis**
 - **Iatrogenic injury**
 - **Medical ototoxicity**
 - **Aminoglycosides**
 - **Surgical injury**
 - **Middle ear/mastoid surgery**
 - **Inner ear surgery (endolymphatic sac shunt, labyrinthectomy)**
 - **Cerebellopontine angle surgery**
 - **Vasculitis (inflammatory disease)**

