

CAUSES OF DIZZINESS AND VERTIGO

The body maintains balance with sensory information from three systems:



VISION



SOMATOSENSORY/
PROPRIOCEPTION
(MUSCLES AND JOINTS)

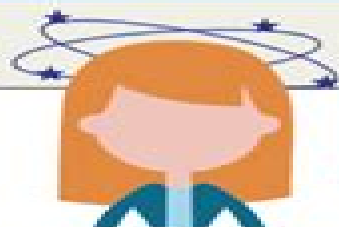


VESTIBULAR
(INNER EAR)

Input from these three systems is integrated and processed by the brain. Feedback is sent to the eyes to help maintain steady vision and to the muscles to help maintain posture and balance.



If there is damage or impairment of any of these systems, dizziness, vertigo, and imbalance may occur.



VERTIGO is the perception of movement/spinning, either of the self or of the environment.

DIZZINESS is a general term that describes lightheadedness, a floating sensation, or faintness.

IMBALANCE or disequilibrium is a feeling of being off-balance or a loss of equilibrium.

Vestibular Causes of Dizziness/Vertigo

- Head Injury
- Aging
- Lack of blood flow to the inner ear
- Displacement of "crystals" within the inner ear
- Viral infection
- Migraines can create dizziness/vertigo with or without a headache
- Genetic or environmental factors (exposure to certain drugs or chemicals)
- Structural deformities in the bone that overlies the inner ear
- Benign tumors

Non-Vestibular Causes of Dizziness/Vertigo

- Muscle strain or arthritis
- Aneurysm, stroke, atherosclerosis, and embolism
- Medications
- Damage to nerves that supply sensation to the feet
- Orthostatic hypotension or faintness when sitting or standing
- Cataracts and macular degeneration
- Adjusting to new bifocals/glasses prescriptions
- Psychological disorders like anxiety

To read the full article, head to www.vestibular.org

Vestibular Disorders Vestibular Disorders

Bradley W. Kesser,A. Tucker Gleason

Vestibular Disorders Vestibular Disorders:

Vestibular Disorders Joseph Furman, Stephen Cass, Susan Whitney, 2010-01-29 Using a case oriented approach this practical text provides evidence based guidance related to the evaluation and management of persons with balance and vestibular disorders The text benefits by the combined expertise of a neurologist a neurotological surgeon and a physical therapist

Disorders of the Vestibular System Benjamin T. Crane, Lawrence Lustig, Christopher de Souza, 2023-10-21 This book gives the reader an appropriate background for diagnosing and treating patients with vestibular disorders Most causes of vertigo can be effectively treated and there have been major advancements in both vertigo diagnosis and treatment in recent years Unfortunately for many practitioners modern training in the management of vertigo was not included as part of their residency The major barrier to effective treatment in most patients seems to be lack of awareness of the correct diagnoses and treatment options on the part of providers This book directly addresses that knowledge gap The text is divided into 16 chapters The initial chapters are an overview of normal vestibular anatomy function and testing The next section of the book builds on these chapters to discuss the treatment of specific disorders like Meniere's disease vestibular neuritis benign paroxysmal positional vertigo and third mobile window conditions The connection between vestibular disorders and psychiatric conditions such as anxiety and depression is discussed Recent advancements in the treatment of vestibular disorders are covered with chapters on vestibular physical therapy and vestibular implantation The book closes with a discussion of aging and the vestibular system *Disorders of the Vestibular System* is an excellent guide to this rapidly evolving field and will be of great use to physicians in otolaryngology neurology and general practice who are likely to encounter patients with dizziness and vertigo

Diagnosis and Treatment of Vestibular Disorders Seilesh Babu, Christopher A. Schutt, Dennis I. Bojrab, 2019-01-24 This text reviews the current understanding of vestibular anatomy allowing for a framework of reference and how it is applied to vestibular testing diagnosis and management of dizziness Vestibular testing is an important tool in the evaluation and management of the patient with dizziness It aids in establishing a diagnosis and determining the side or site of the lesion In addition it guides practitioners in selection of treatment and allows the ability of the patient's condition to be evaluated over its time course Common vestibular pathologies such as benign positional vertigo Meniere's disease multisensory imbalance vestibular neuritis superior canal dehiscence and vestibular migraine will be addressed in a concise and understandable manner The text follows a clear format in which the etiology pathophysiology diagnostic features and medical or surgical management of such pathologies are discussed The book gains increased importance as superior canal dehiscence and vestibular migraine are relatively new hot topics Lastly relatively rare entities such as bilateral vestibular hypofunction pediatric vestibular disorders and central vestibular disorders are discussed This text serves as a complete reference for clinicians students and researchers interested in this common and severe disorder allowing for improved patient care and advancement of knowledge in the field Chapters are written by acknowledged experts

allowing summary review of the newest and most up to date understanding of scientific information Diagnosis and Treatment of Vestibular Disorders will be an invaluable resource for otolaryngologists neurologists otologists and neurotologists basic science and translational researchers with interests in the vestibular system fellows and residents in aforementioned fields and general practitioners with an interest in patients with symptoms of dizziness Vestibular Disorders Joseph M. Furman, Stephen P. Cass, 2003 Vestibular Disorders Second Edition uses a case study approach to outline the field of dizziness and balance disorders Written from the combined perspectives of a neurologist and a neurotologic surgeon each case study describes history physical examination laboratory testing differential diagnosis and treatment The text includes background material and 59 case studies five of which concern multiple diagnoses and ten of which address controversial issues Vestibular Disorders Second Edition spans the gap between textbook knowledge and the real world of caring for patients with dizziness Dizziness and Vertigo Across the Lifespan Bradley W. Kesser, A. Tucker Gleason, 2018-02-05 Get a quick expert overview of dizziness and vertigo from childhood through old age with this concise practical resource Drs Bradley W Kesser and Tucker Gleason have assembled a leading team of experts to address timely clinical topics of interest to otolaryngologists and other health care providers who see patients with these common problems Covers key topics such as the clinical exam and diagnostic techniques assessment and differential diagnosis in the pediatric population dizziness and vertigo in the adolescent and the elderly evaluation of dizziness in the litigating patient vHIT positional vertigo in all age groups vestibular neuritis migraine associated vertigo Meniere s disease medication related dizziness in the older adult and more Includes information on dizziness demographics and population health as well as development of the vestibular system and balance function Consolidates today s available information and experience in this important area into one convenient resource Vestibular Rehabilitation Susan J. Herdman, Richard Clendaniel, 2014-07-24 Recognized as two of the world s leading authorities on the subject Susan Herdman and Richard Clendaniel joined by a team of expert contributors deliver the 4th Edition of the field s definitive text on the management of vestibular diseases and disorders From assessment through therapy they present the scientific and clinical knowledge you need to distinguish between vestibular and non vestibular dizziness and to plan and implement the appropriate treatments **Vertigo and Dizziness** Michael Strupp, Thomas Brandt, Marianne Dieterich, 2023-04-17 The third edition of this successful book has been fully revised expanded and updated to reflect the recent advances in vertigo and dizziness especially with regard to current classifications and clinical trials The book starts by covering the fundamentals of anatomy and physiology of the vestibular and the ocular motor systems It provides guidance on how to take the patient history laboratory and imaging analysis and principles of therapy exploring different therapeutic strategies It then goes on to cover in detail the diagnosis and current treatment of peripheral central and functional vestibular disorders as well as miscellaneous rare vestibular syndromes Using a uniform chapter style to address the various diseases and adopting a reader friendly educational format this is an indispensable guide for clinicians

who treat patients with vertigo dizziness and balance disorders Hundreds of patient videos are included for the diseases demonstrating typical patient histories and clinical findings Chapters have also been expanded to discuss the current classification and therapies as well as new and ongoing clinical trials with ample new figures Written by three top experts in the field this book is aimed at a broad range of medical specialists namely neurologists ENT specialists neuro otologists ophthalmologists physiotherapists general practitioners as well as residents and students Via app download the SN More Media app for free scan a link with play button and access videos directly on your smartphone or tablet **Oxford**

Textbook of Vertigo and Imbalance Adolfo Bronstein,2013-02-21 Vertigo dizziness and imbalance rank amongst the most common presenting symptoms in neurology ENT geriatric medicine and general practice These symptoms can originate from many different organs and systems such as the inner ear general medical conditions and neurological and psychological disorders The Oxford Textbook of Vertigo and Imbalance covers the scientific basis clinical diagnosis and treatments for the disorders leading to dizziness and poor balance Each chapter comprehensively covers the established knowledge of each disorder as well as introducing the reader to the latest research aspects Additionally the specialist authors offer their own clinical opinions based on practice and experience Didactic tables figures and diagrams are used throughout this volume to enhance understanding The print edition is complemented by an online version which allows access to the full content of the textbook contains links from the references to primary research journal articles allows full text searches and provides access to figures and tables that can be downloaded to PowerPointRG **Disorders of the Vestibular System** Robert William

Baloh,G. Michael Halmagyi,1996 An up to date comprehensive review of disorders of the vestibular system authored by some of the most prominent experts in the field this book covers basic vestibular mechanisms clinical evaluation common vestibular diseases and treatment of vertigo Part I reviews the anatomy and physiology of the vestibular system focusing on clinically relevant material Part II analyzes specific details in the patient s history examination and laboratory evaluation pointing to the probable site of lesion and likely pathophysiology Patient history is emphasized since it is the critical first step in understanding the patient s complaints Part III covers the differential diagnosis and specific treatments of common neurologic disorders A separate chapter surveys the common syndromes encountered in neurotology Part IV discusses general principles of treatment relevant to all vestibular disorders Designed primarily to help physicians who treat patients complaining of dizziness this book is also a complete source of reference to practitioners in internal medicine family practice otolaryngology neurology head and neck surgery and neurosurgery **Vestibular Function** Alan L. Desmond,2011-04-20

In an updated and expanded Second Edition this essential text continues to provide a dynamic introduction to dizziness and balance disorders and a thorough discussion of the tenets of managing a balance clinic Vestibular Function Clinical and Practice Management begins with comprehensive advice on the function and dysfunction of the vestibular system and how to perform a vestibular evaluation In the following chapters the author provides insight on the prevention of falls and the

treatment of vestibular dysfunction In his expert discussion of the practical aspects involved in establishing equipping and operating a balance clinic Dr Desmond includes his own unique perspective on staffing needs and marketing and financial considerations New to this edition Expanded and updated coverage of the disorders which cause dizziness vertigo or imbalance Extended review of specific disorders with need to know information about retrocochlear pathology and auditory asymmetry A new chapter on falls prevention and updated coverage featuring expert opinions on pediatric and neurological perspectives Updated appendices of essential reference material and practice resources This hands on guide is an ideal overview for beginning audiologists as well as a useful reference for already practicing audiologists otolaryngologists neurologists physical therapists and emergency department physicians working in this challenging field

Vertigo and Dizziness Ambar Chakravarty, 2019-08-28

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Textbook of Vertigo: Diagnosis and Management
 Francesco Dispenza, Alessandro De Stefano, 2013-11-30 Vertigo is the feeling that everything around is moving or spinning and is usually caused by a problem with the balance mechanisms in the inner ear It can also be caused by problems in certain parts of the brain or vision disorders This book is a comprehensive guide to the diagnosis and management of vertigo Beginning with basic anatomy physiology and epidemiology of dizziness the following chapters examine different causes of vertigo their diagnosis and treatment Edited by recognised Italian otolaryngologists this textbook has been written by authors many from the US from multidisciplinary backgrounds including otolaryngology neurology anatomy physiology epidemiology and surgery This invaluable guide includes extensive references and numerous clinical photographs illustrations tables and figures Key points Comprehensive guide to diagnosis and treatment of vertigo Covers anatomy and physiology and numerous causes Multi disciplinary author and editor team from Europe and the USA Includes 130 images and illustrations

Common Vestibular Disorders - I - ECAB N N Mathur, 2010-11-20 Common vestibular disorders presenting with vertigo contributes significantly to morbidity and mortality The challenge is to identify the underlying cause of dizziness so as to streamline the treatment and improve quality of life In day to day ENT practice incidence of dizziness is reported to be 10 15% It is often associated with a range of otological neurological and psychiatric disorders There are fewer subjects in medicine which keep us more confused than vertigo Dizziness and vertigo may be disturbing and incapacitating causing problems to people doing regular or specialized tasks such as driving operating heavy machinery or flying As the sensations are hard to describe patients often use the words dizziness and Vertigo interchangeably and inconsistently Patients with the same underlying disorder might describe the symptoms very differently and might also differently describe the same dizzy event depending upon how the question is directed The aim of this book is to explore the experience and learning of some of the eminent medical professionals develop relevant updates and make them easily available for utilization by the Indian clinical practitioners

Common Vestibular Disorders - II - ECAB N N Mathur, 2010-11-20 Common vestibular disorders presenting with vertigo contributes significantly to morbidity and mortality The challenge is to identify the underlying cause of dizziness so as to streamline the treatment and improve quality of life In day to day ENT practice incidence of dizziness is reported to be 10 15% It is often associated with a range of otological neurological and psychiatric disorder There are fewer subjects in medicine which keep us more confused than vertigo Dizziness and vertigo may be

disturbing and incapacitating causing problems to people doing regular or specialized tasks such as driving operating heavy machinery or flying As the sensations are hard to describe patients often use the words dizziness and vertigo interchangeably and inconsistently Patients with the same underlying disorder might describe the symptoms very differently and might also differently describe the same dizzy event depending upon the how the question is directed The aim of this project is to explore the experience and learning of some of the eminent medical professionals develop relevant updates and make them easily available for utilization by the Indian clinical practitioners *Vestibular Disorders* Jane Lea,David Pothier,P.J.

Bradley,2019 This collection of articles on the latest developments is written by experts in various sub disciplines medical and paramedical of vestibular disorders Contributions discuss various manifestations of vestibular disorders and how to diagnose and treat them The different areas are put into context to support the clinician in the diagnosis and treatment of patients with dizziness imbalance and vertigo New diagnostic tools are presented as are new approaches to the understanding of clinical signs and underlying pathologies Otolaryngologists seeking to provide up to date assessment and care will find this publication a valuable and indispensable read The contributions presented appeal not only to otolaryngologists of all levels of experience but also to front line clinical staff Vestibular Disorders Joseph M.

Furman,Stephen P. Cass,Susan L. Whitney,2010 Using a case oriented approach this practical text provides evidence based guidance related to the evaluation and management of persons with balance and vestibular disorders The text benefits by the combined expertise of a neurologist a neurotological surgeon and a physical therapist **Vertigo and Disequilibrium**

Peter C. Weber,2016-12-14 This authoritative guide provides a solid clinical foundation to help practitioners manage vertigo and balance disorders in practice This updated edition provides a comprehensive basis for understanding identifying and treating the underlying multifactorial etiologies of dizziness and imbalance Vertigo is a common malady for which patients seek treatment yet the vestibular system and its associated disorders are often misunderstood This book effectively demystifies this topic with clinical pearls and knowledge from foremost experts in the field The first six chapters cover procuring a thorough patient history examination techniques computerized testing radiological studies surgical anatomy and physiology of the vestibular system and laboratory testing Subsequent chapters concisely detail the diagnosis and treatment of pathologies such as Meniere s disease benign paroxysmal positional vertigo labyrinthitis superior semicircular canal dehiscence syndrome and unilateral peripheral vestibulopathy Key Features Covers the full age continuum from congenital and pediatric vestibular disorders to balance conditions associated with aging Highlights the most common pathologies such as BPPV as well as fairly rare diseases like Mal de Debarquement syndrome and perilymph fistulas Discusses the impact of alcohol migraines and allergies on the vestibular system and the intrinsic roles they play in causing dizziness New insights on medications rehabilitation and the use of implantable vestibular devices Expanded video library provides guidance on testing modalities visual disturbances nystagmus patterns and specific disorders Physicians who read this authoritative guide will

gain knowledge that is essential for optimal management of patients with vertigo and disequilibrium It is an invaluable resource for otolaryngologists as well as neurologists physical therapists internists geriatricians family practitioners audiologists and even cardiologists *Vertigo and Dizziness across the Lifespan, An Issue of Otolaryngologic Clinics* Bradley W. Kesser,A. Tucker Gleason,2011-04-28 Dizziness comes in many forms in each age group some specific to an age group e g benign paroxysmal vertigo of childhood while others span the age spectrum e g migraine associated vertigo This content organizes evaluation and management of the dizzy patient by age to bring a fresh perspective to seeing these often difficult patients The pediatric section begins with a review of vestibular embryology and physiology and moves toward a comprehensive discussion of methods both bedside and in the vestibular lab to evaluate the child with dizziness or clumsiness concluding with an exploration of the differential diagnosis of dizziness and relevant findings Dizziness in the adolescent points to migraine headache as a common cause enumerates treatment strategies for migraine associated vertigo and offers guidelines for when to image the adolescent with dizziness Adult dizziness is more a compilation of the relevant diagnoses but the section starts with dizziness that can affect young adults especially members of our Armed Forces fighting overseas traumatic brain injury blast injury This content also has relevance for patients in motor vehicle accidents and head injury patients Medicolegal aspects of evaluation and management of dizzy patients are succinctly covered in Evaluation of Dizziness in the Litigating Patient The final chapter in this section Other Causes of Dizziness provides a very thorough overview of unusual causes of dizziness in the adult population Dizziness associated with advancing age is quite common and often multifactorial as is highlighted in the chapter Dizziness in the Elderly A comprehensive review of the posterior cerebral circulation transient ischemic attacks and posterior circulation stroke is presented in the chapter Vertebrobasilar Insufficiency No coverage of dizziness in the elderly is complete without an exposition of polypharmacy and medication effects Other common diagnoses of dizziness in the elderly are thoughtfully reviewed along with a survey of new and old techniques to rehabilitate the older patient with dizziness or disequilibrium Patients presenting with dizziness can harbor serious if not life threatening conditions such as stroke brain abscess or severe chronic ear disease At the end of several articles the reader will find a relevant table What Not To Miss a list of clinically significant signs and symptoms not to ignore or conditions differential diagnosis that may masquerade as that discussed in the chapter but critically important that the practitioner should not overlook in the evaluation of the patient Many articles in this edition start with a clinical scenario so the reader can recognize common presenting symptoms demographic features and factors in the medical history that will aid in making the diagnosis **The Dizzy Patient, An Issue of Otolaryngologic Clinics of North America, E-Book** Maja Svrakic,Meredith E. Adams,2021-09-21 This issue of Otolaryngologic Clinics guest edited by Drs Maja Svrakic and Meredith E Adams is devoted to The Dizzy Patient This issue is one of six selected each year by our series consulting editor Dr Sujana S Chandrasekhar With its broad differential diagnosis and significant impact on quality of life dizziness is a common symptom

that presents substantial diagnostic and therapeutic challenges This issue focuses on the clinical evaluation and management of the range of dizziness symptomatology and syndromes Articles in this issue include Overview of dizziness in practice Interviewing and counseling the dizzy patient with focus on quality of life The efficient dizziness history and exam Efficient use of audiovestibular testing Neuroimaging of dizziness and vertigo Positional vertigo Acute vestibular syndrome and ER presentations of dizziness Chronic central vestibulopathies for the otolaryngologist Vestibular migraine and its comorbidities Progressive and degenerative peripheral vestibular disorders The dizzy child Neuropsychology of dizziness and related disorders Non vestibular dizziness Vestibular therapy and fall risk assessment Current and emerging medical therapies for dizziness Allergy immunotherapy and alternative treatments for dizziness and New frontiers in managing the dizzy patient Provides in depth clinical reviews on dizzy patients providing actionable insights for clinical practice Presents the latest information on this timely focused topic under the leadership of experienced editors in the field Authors synthesize and distill the latest research and practice guidelines to create these timely topic based reviews **Vertigo** Thomas Brandt, 2002-01-01 In the light of the latest clinical research this second edition has been completely rewritten to provide a timely monograph on the differential diagnosis and management of vertigo The book is divided into sections covering the major subdivisions of vertigo including peripheral labyrinthine disorders central vestibular disorders benign paroxysmal positional vascular traumatic and familial vertigo vertigo in childhood and in the elderly and related to drugs Each includes a full description of the clinical features and diagnosis and the author stresses the relationship between management and the underlying pathological mechanism Written by a leading authority in the field this will be of interest to all who treat vertigo patients as well as researchers working in related areas

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Vestibular Disorders Vestibular Disorders Introduction

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