

UNDERSTANDING EPILEPSY

What Is Epilepsy?

Epilepsy is a chronic neurological condition that affects millions of people throughout the world. The term "epilepsy" is a general term that refers to many different disorders in which groups of nerve cells in the brain have abnormal electrical activity. These abnormal electrical discharges can occur in a focus in the brain, or can occur in localized regions. Only those people who have had two or more seizures are diagnosed as having epilepsy.

What Causes Epilepsy?

Epilepsy can be caused by a variety of factors. This means there are many causes of other conditions such as a brain injury, head injury, stroke, brain tumor, infection, or congenital abnormality. Current theories may also point to a role in the cause of epilepsy, such as an imbalance in the brain's electrical activity, meaning they don't go on for reasons related to previously known factors.

How the Brain Works

Although it appears to be solid, the brain is made up of billions of cells, including a network of specialized neurons. These neurons are the basic building blocks of the brain. They send and receive information from the rest of the body.

Each neuron "fires" or sends small electrical impulses along its branches to other neurons. In the rest of each neuron is a specialized structure, which the signals must cross to enter the next neuron.

Together, a few billion of constantly used individual neurons in the brain make up the nervous system that is the appropriate system to handle the information. However, this flow of information is not always perfect. Sometimes, the flow of information is disrupted, and the brain can't handle the signals of electrical activity that it receives. This can lead to a seizure.



The brain is also split into two hemispheres. The right half controls the left side of the body, and the left half controls the right side of the body. Each hemisphere is divided into four lobes. Each lobe has its own special functions, each associated with specific activities.



Seizures Can Cause

Phases of a Seizure

- Prodrome:** Some people experience a prodrome, or a warning, before a seizure. This can be a change in mood, a change in behavior, or a change in sensation.
- Aura:** The aura is a warning, or a change in sensation, that occurs just before the seizure begins. It can be a change in vision, or a change in sensation, or a change in behavior.
- Post-ictal:** Some people experience a post-ictal phase, or a phase of recovery, after a seizure. This can be a change in mood, a change in behavior, or a change in sensation.

What Is a Seizure?

A seizure is an abnormal change in electrical activity within the brain, which leads to a change in movement, sensation, or behavior. There are many types of seizures. The effects they have on the body vary greatly, depending on where in the brain the seizure starts, and what it spreads.

If Someone Has a Seizure

Although few seizures may be dangerous to someone, they can be very scary. If someone has a seizure, it is important to stay calm and to help the person. If someone has a seizure, it is important to stay calm and to help the person. If someone has a seizure, it is important to stay calm and to help the person.

You Should:

- Stay calm.
- Help the person lie down and rest.
- Remove any objects that could hurt the person.
- Turn the person's head to the side.
- Do not put anything in the person's mouth.
- Do not restrain the person.

You Should Not:

- Put anything in the person's mouth.
- Try to restrain the person.

Generalized Seizures

These seizures affect both hemispheres of the brain at the same time. Seizure activity is not limited to one specific area and there generally is no loss of the self.

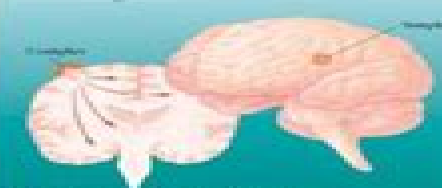


Main Forms of Generalized Seizures

- Absence seizures:** These seizures are characterized by a "blank" look in the eyes. The person is not aware of what is happening around them. They are usually very short, lasting only a few seconds.
- Tonic-clonic seizures:** These seizures are characterized by a stiffening of the muscles, followed by a jerking of the body. The person is usually aware of what is happening around them.
- Myoclonic seizures:** These seizures are characterized by a sudden, brief, jerking of the muscles. The person is usually aware of what is happening around them.
- Atonic seizures:** These seizures are characterized by a sudden loss of muscle tone. The person is usually aware of what is happening around them.

Partial Seizures

These seizures begin in a part of one hemisphere, generally in the temporal or frontal lobe. The four types of partial seizures, called simple and complex, are based on whether a person remains fully conscious during a seizure.



Main Forms of Partial Seizures

- Simple partial seizures:** These seizures are characterized by a change in sensation, movement, or behavior. The person is usually aware of what is happening around them.
- Complex partial seizures:** These seizures are characterized by a change in sensation, movement, or behavior. The person is usually not aware of what is happening around them.
- Secondarily generalized seizures:** These seizures are characterized by a change in sensation, movement, or behavior. The person is usually aware of what is happening around them.
- Partial seizures with impaired awareness:** These seizures are characterized by a change in sensation, movement, or behavior. The person is usually not aware of what is happening around them.

Complex partial seizures are characterized by a change in sensation, movement, or behavior. The person is usually not aware of what is happening around them.

Diagnosing Epilepsy

There is no single test for epilepsy. The doctor will make a diagnosis based on a description of past seizures, from those who have had a seizure, or from a description of what the person is feeling. The doctor will also make a diagnosis based on a description of what the person is feeling. The doctor will also make a diagnosis based on a description of what the person is feeling.

There are tests designed to gather information about a person's condition. The most commonly used test is an electroencephalogram (EEG). An EEG is a test that measures the electrical activity of the brain. It is used to diagnose epilepsy and to monitor the effectiveness of treatment. There are also other tests, such as magnetic resonance imaging (MRI) and positron emission tomography (PET), that can be used to diagnose epilepsy.



Epilepsy The Facts Oxford Medical Publications

ML Yell



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Current Catalog National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70

Monographic Series Library of Congress,1982 Oxford Textbook of Neuropsychiatry Niruj Agrawal,Rafey

Faruqui,Mayur Bodani,2020-08-25 A survey of over 900 trainees at the Royal College of Psychiatrists RCPsych in the United Kingdom showed that over three quarters of psychiatry trainees desired some knowledge and training in the field of neuropsychiatry Recent years have given rise to a substantial global focus on integrating neurosciences and neuropsychiatry in psychiatric training Neuropsychiatry forms an important part of the psychiatric curriculum and is examined in theory and in clinical exams Similarly neuropsychiatry is also of interest to neurology trainees and it is increasingly recognised that all neurology trainees should have some knowledge and experience in neuropsychiatry Despite this growing interest there is a dearth of neuropsychiatry textbooks specifically geared towards trainees and other clinicians who are not specialist in the field Part of the Oxford Textbooks in Psychiatry series the Oxford Textbook of Neuropsychiatry helps to bridge the gap between general psychiatric textbooks and reference texts in neuropsychiatry Organised into four sections the book covers the basic knowledge and skills relevant to neuropsychiatry the various neuropsychiatric conditions the principles of treatment and perspectives for neuropsychiatry worldwide Chapters have been written by international experts who are leaders in their own fields with the view to taking an evidence based up to date global perspective on neuropsychiatric problems and treatment The book is relevant to trainees in psychiatry neurology neurorehabilitation and also to various allied professionals in neuroscience and mental health It covers core knowledge and skills for practice in all psychiatric disciplines including core knowledge for training in neuropsychiatry The book meets curriculum requirements for various international training programmes and examinations and serves as an essential training text book for all psychiatric and neurology trainees worldwide **The Music Room: A Memoir** William Fiennes,2010-09-13 A bittersweet description of an ancient family house in an enchanted setting and of growing up with a damaged brother Sublimely evocative The New Yorker William Fiennes spent his childhood in a moated castle the perfect environment for a child with a brimming imagination It is a house alive with history beauty and mystery but the young boy growing up in it is equally in awe of his brother Richard Eleven years older and a magnetic presence Richard suffers from severe epilepsy His illness influences the rhythms of the family and the house s internal life and his story inspires a journey interwoven with a loving recollection toward an understanding of the mind This is a song of home of an adored brother and the miracle of consciousness The chill of dark historical places coexists with the warmth and chatter of the family kitchen the surrounding landscapes are distinguished by ancient trees secret haunts the moat s depths and temptations Bursting with tender detail The Music Room is a sensuous tribute to place memory and the permanence of love *The Neurological Emergence of Epilepsy* Vasia Lekka,2014-06-19 This book explores the emergence of epilepsy as a purely neurological disorder in the second half of the nineteenth century It

focuses on the world's first neurological hospital the National Hospital for the Paralyzed and Epileptic in London and on its leading figure John Hughlings Jackson 1835-1911 Through an analysis of the National Hospital's medical records and a historical account of the course of epilepsy until our time this book presents the nineteenth century turn towards the scientific study of the human brain and the various political social ideological and epistemological implications of this major change In spite of the recent trend of describing the history of mental illness mental patients and psychiatric institutions so far neurology epilepsy and epileptic patients have largely remained outside the scope of social historians historians of medicine and social scientists This book has the ambition to fill that gap Boston Medical and Surgical Journal ,1905

Journal of the American Medical Association ,1922 Includes proceedings of the association papers read at the annual sessions and lists of current medical literature Edinburgh Medical Journal ,1924 Neurology T. Fowler,R. May,2012-12-06 DDDDDDDDDDD Effective management logically follows accurate diagnosis Such logic often is difficult to apply in practice Absolute diagnostic accuracy may not be possible particularly in the field of primary care when management has to be on analysis of symptoms and on knowledge of the individual patient and family This series follows that on Problems in Practice which was concerned more with diagnosis in the widest sense and this series deals more definitively with general care and specific treatment of symptoms and diseases Good management must include knowledge of the nature course and outcome of the conditions as well as prominent clinical features and assessment and investigations but the emphasis is on what to do best for the patient Family medical practitioners have particular difficulties and advantages in their work Because they often work in professional isolation in the community and deal with relatively small numbers of near normal patients their experience with the more serious and more rare conditions is restricted They find it difficult to remain up to date with medical advances and even more difficult to decide on the suitability and application of new and relatively untried methods compared with those that are old and well proven IX Their advantages are that because of long term continuous care for their patients they have come to know them and their families well and are able to become familiar with the more common and less serious diseases of their communities National Library of Medicine Current Catalog National Library of Medicine (U.S.), **British Medical Journal** ,1928 **Medical Disorders in Pregnancy** S. Elizabeth Robson,Jason Waugh,2013-02-04 Praise for the 1st edition This book is a must have for any midwife particularly those working in the community clinics and in high risk areas This book is an extremely useful reference tool MIDIRS Midwifery Digest The important facts are laid out concisely primarily focusing on management using evidence based guidelines for best midwifery practice RCGP Journal Medical Disorders in Pregnancy A Guide for Midwives 2nd edition clearly outlines existing and pre-existing conditions which women can experience during pregnancy This comprehensive and practical handbook identifies issues for pre-conception care defines the condition explores possible complications outlines recommended treatment and emphasizes specific midwifery care This fully revised and updated edition of Medical Disorders in Pregnancy A

Guide for Midwives builds on the success of the first edition by covering more subjects It includes physiology more illustrations and algorithms and its accessible reference style text enables information to be quickly and easily found Special Features A practical guide on medical disorders written specifically for midwives Jointly written by medical and midwifery experts in the field Accessible reference style format makes information easy and quick to find Emphasis on inter professional working

Handbook of Cross-Cultural Neuropsychology Elaine Fletcher-Janzen, Tony L. Strickland, Cecil R. Reynolds, 2000-08-31 Historically relatively few investigations in neuropsychology have been sensitive to the analysis of cultural variables This handbook will assist the neuropsychologist interested in cultural competence and help increase understanding of the link between cultural competence in assessment and intervention and good treatment outcomes The handbook authors provide an in depth discussion of the current status of multicultural training in neuropsychology specific information on diverse groups age gender ethnicity etc assessment instruments and clinical populations HIV infected seizure disorders brain injuries and unique analysis of immigration patterns forensics and psychopharmacology This volume is the first to summarize the cultural data available in neuropsychology A valuable resource for clinical neuropsychologists school psychologists and rehabilitation professionals

Perspectives on Cancer Care Tonks N. Fawcett, Anne McQueen, 2010-11-11 Perspectives on Cancer Care is a unique collection of insights from contributors based on their specific expertise and experience It provides a range of perspectives on cancer care to inspire readers and encourage high quality care through an enhanced understanding of patients needs and carers skills The book presents a series of chapters highlighting different circumstances and approaches to the complex reality of cancer care In each chapter the author presents their own picture of their experience of the individual s needs and the care required to address these needs illustrating the particular sensitivity trust empathy and support required in the care of patients with cancer and their families The holistic approach to total care is a prominent feature in cancer care and this is illustrated throughout the various chapters This collection of perspectives on cancer care highlights particular issues in the field encourages best practice draws on the expertise of specialist practitioners in the field of cancer care features a holistic approach to cancer care illustrated through scenarios

Nature Sir Norman Lockyer, 1872 The Hahnemannian Monthly, 1926 **Neurology** Charles Clarke, Robin Howard, Martin Rossor, Simon Shorvon, 2016-07-11 Die 2 Auflage von Neurology A Queen Square Textbook wurde vollst ndig bearbeitet und aktualisiert und zeigt wie schnell in der klinischen Neurologie und den angewandten Neurowissenschaften Fortschritte erzielt werden Umfassender und praktischer berblick ber die aktuellen Entwicklungen in der klinischen Neurobiologie der klinische Neurologie und translationaler Forschung vereint Vor Experten herausgegeben und von Neurologen Neurowissenschaftlern und Neurochirurgen am Queen Square geschrieben mit der fachlichen Unterst tzung eines internationalen Herausgeberteams das f r die globale Perspektive verantwortlich zeigt Die Einleitungskapitel fassen die wissenschaftlichen Grundlagen zusammen und machen deutlich wie wichtig die klinische Neurologie einschlie lich Genetik

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The Boston Medical and Surgical Journal ,1908

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Table of Contents Epilepsy The Facts Oxford Medical Publications

1. Understanding the eBook Epilepsy The Facts Oxford Medical Publications
 - The Rise of Digital Reading Epilepsy The Facts Oxford Medical Publications
 - Advantages of eBooks Over Traditional Books
2. Identifying Epilepsy The Facts Oxford Medical Publications
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Epilepsy The Facts Oxford Medical Publications
 - User-Friendly Interface
4. Exploring eBook Recommendations from Epilepsy The Facts Oxford Medical Publications
 - Personalized Recommendations
 - Epilepsy The Facts Oxford Medical Publications User Reviews and Ratings
 - Epilepsy The Facts Oxford Medical Publications and Bestseller Lists

5. Accessing Epilepsy The Facts Oxford Medical Publications Free and Paid eBooks
 - Epilepsy The Facts Oxford Medical Publications Public Domain eBooks
 - Epilepsy The Facts Oxford Medical Publications eBook Subscription Services
 - Epilepsy The Facts Oxford Medical Publications Budget-Friendly Options
6. Navigating Epilepsy The Facts Oxford Medical Publications eBook Formats
 - ePub, PDF, MOBI, and More
 - Epilepsy The Facts Oxford Medical Publications Compatibility with Devices
 - Epilepsy The Facts Oxford Medical Publications Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Epilepsy The Facts Oxford Medical Publications
 - Highlighting and Note-Taking Epilepsy The Facts Oxford Medical Publications
 - Interactive Elements Epilepsy The Facts Oxford Medical Publications
8. Staying Engaged with Epilepsy The Facts Oxford Medical Publications
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Epilepsy The Facts Oxford Medical Publications
9. Balancing eBooks and Physical Books Epilepsy The Facts Oxford Medical Publications
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Epilepsy The Facts Oxford Medical Publications
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Epilepsy The Facts Oxford Medical Publications
 - Setting Reading Goals Epilepsy The Facts Oxford Medical Publications
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Epilepsy The Facts Oxford Medical Publications
 - Fact-Checking eBook Content of Epilepsy The Facts Oxford Medical Publications
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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