

Intensive neurodiagnostic monitoring: Role in the treatment of seizures

Robert J. Gumnit, MD

Intensive neurodiagnostic monitoring is a rapidly expanding field that includes combined video/EEG recording, cable and radio EEG telemetry, (portable) ambulatory cassette-recorded EEG, and the use of depth electrodes. It began in an experimental fashion in the 1950s. Fifteen years ago, the Epilepsy Advisory Committee of the National Institute of Neurological and Communicable Disorders and Stroke (NINCDS) concluded that efforts to refine these techniques into clinically useful tools should begin. We have now arrived at the point where the indications for such efforts should be formalized, techniques and terminology standardized, and key research questions identified. This review was prompted by the International Conference on Intensive Neurodiagnostic Monitoring, sponsored jointly by the Minnesota Comprehensive Epilepsy Program and the American Epilepsy Society, and held in November 1984 at the Annual Meeting of the American Epilepsy Society. The conference was supported, in part, by a grant from the National Institutes of Health (NINCDS grant number R13-NS 20816-01). (See Appendix.)

Episodic events are difficult for physicians to diagnose and treat. For the most part, one must depend upon history and indirect evidence, unless the physician is fortunate enough to actually witness and adequately record the event. This rarely happens, because most of these events do not occur frequently each day. Therefore, the problem of obtaining good data with which to make a proper diagnosis of an episodic event is an important one for modern medicine. The challenge of obtaining good information about events that present episodically is not unique to any one specialty. However, it is particularly common in the two major areas of cardiology and neurology. Malfunctions of one system are frequently mistaken for the other.

Cardiology has done well in dealing with its particular problems, because medicine and physiology have a better grasp of the fundamental relationship between the electrical activity of the heart and the behavior of the pump. Since cardiac function is repetitious and the electrical activity is simpler, it is easier to analyze. Good instrumentation has been developed—for example, Holter monitoring with computer analysis.¹

The solutions are less well developed for malfunc-

tions of the CNS. Data have been gathered in three major areas: seizures; "dizziness," which may involve seizures, vertigo, or cardiac problems; and other episodic disturbances of behavior. The techniques for making these observations have proliferated, and the literature is large and confusing. At the same time, the general neurologic community is ignorant of many of the new advances and does not truly understand the implications for improved diagnosis and treatment.

For many common and uncomplicated problems, the history a physician obtains and a routine interictal EEG recording are quite sufficient to make a diagnosis.² However, the data gathered from carefully controlled studies of the treatment of intractable seizures indicate that more complex cases require intensive neurodiagnostic monitoring.³ The same situation holds true in the treatment of patients in whom the diagnosis of seizures is in doubt—for example, when it is not clear whether the problem is of CNS or cardiac origin, or in patients in whom the question of psychogenic seizures is raised.

Terminology. Many different words have been used to describe the same equipment and techniques by various authors. In this review, the general field is called "intensive neurodiagnostic monitoring." Monitoring in some contexts—for example, post-coronary care units—may mean as little as a 24-hour-a-day display of the ECG with an automatic alarm system. The term "intensive neurodiagnostic monitoring" (INDM) refers to close observation with the ability to review, at leisure, episodic events. The term "intensive" is added to separate it from the routine checking for major rhythm disturbances that is often called "ECG monitoring."

Although the word may sound awkward, "neurodiagnostic" is very descriptive. It implies that the technique is being used to look at changes of activity within the nervous system or at events that may affect the nervous system, and the term "diagnostic" carries with it the implication that this is something actively used in diagnosis of disease, and is hence part of an active treatment process. In much the same way that departments of radiology now call themselves "departments of imaging," so many new techniques have been grafted onto EEG that we are required to take a broader look at what neurologists and electroencephalographers do.

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Intensive Neurodiagnostic Monitoring

John S. Ebersole, Timothy A. Pedley



Intensive Neurodiagnostic Monitoring:

Intensive Neurodiagnostic Monitoring Robert J. Gumnit, 1987 Intensive Neurodiagnostic Monitoring Robert J. Gumnit, 1987 **Handbook of ICU EEG Monitoring** Suzette LaRoche, Hiba Haider, 2018-02-28

Continuous EEG monitoring is an important tool for assessing brain function and allows clinicians to identify malignant EEG patterns quickly and provide more effective care. The revised and updated second edition of *Handbook of ICU EEG Monitoring* distills the wide range of technical and clinical issues encountered in successful critical care EEG for the busy clinician. Written by leading experts in this rapidly evolving field, the handbook incorporates the ground-breaking advances that have impacted practice since publication of the first edition. Concise chapters break down the fundamentals of EEG acquisition and other technical considerations, clinical indications, EEG interpretation, treatment, and administrative concerns. Entirely new chapters on cardiac arrest in adults, neonatal seizures, periodic and rhythmic patterns, and inter-rater agreement for interpretation in the ICU are included, along with new neonatal guidelines and ACNS adult and pediatric consensus statements. All existing chapters have been revised and updated to include the latest information and coverage of quantitative EEG. QEEG is expanded to reflect the expanding role of this technology in reviewing ICU EEG recordings. Formatted for maximum utility with bulleted text and banner heads to reinforce essential information.

Key Features: Revised and updated second edition encompasses the current scope of clinical practice. Broad but practical reference covering all aspects of ICU EEG monitoring. Six entirely new chapters and many new expert authors and topics. Thorough discussion of the indications for ICU EEG monitoring and prevalence of seizures in patient subgroups. Focuses on the challenges of EEG interpretation that are unique to EEG monitoring in the ICU. Key points and future directions. Unanswered questions highlighted in every chapter. Includes hard-to-find information on technical aspects, indications, billing and coding, and other administrative and procedural concerns. Access to downloadable ebook supplemented with additional EEG examples and clinical cases.

Clinical Electroencephalography Misra, 2005. This book presents a thorough and systematic exposition of the various dimensions of electroencephalography. It emphasizes direct bedside application in different areas. Among the wide spectrum of topics covered, the book highlights the historical aspects, basic and technical details, methodological issues, and interpretation and application in different areas. The book also provides exhaustive chapters on the role of EEG in paediatrics, psychiatry, obstetrics, and epilepsy surgery, which make the presentation relevant for a number of specialists besides neurologists. The text is amply illustrated by a large number of diagrams, photographs, charts, and tables. All these features make this book an ideal text for students and practitioners of neurology. Other specialists who often have to conduct and interpret EEG would also find this book to be a useful and reliable reference source.

About the Author: U K Misra, Professor, Head, Department of Neurology, Sanjay Gandhi Postgraduate Institute of Medical Sciences, Raebareilly Road, Lucknow, India. J Kalita, Associate Professor, Department of Neurology, Sanjay Gandhi Postgraduate

Institute of Medical Sciences Raebareli Road Lucknow India *Health Technology Assessment Reports* ,1990 Cerebral Monitoring in the Operating Room and the Intensive Care Unit Enno Freye,2012-12-06 In spite of today s increasing body of knowledge in regard to central nervous func tion and or the mode of action of centrally active compounds little is done to monitor those patients which are at risk of cerebral lesions either in the OR or in the ICU Due to the inconsistency of reports regarding the application and the benefits computerized EEG and or evoked potential monitoring will bring to the clinician physicians still are reluctant to get involved with a technique which they think will have little or no effect on the outcome of a patients well being However due to the development in computer technology data acquisition and comprehension it now is possible to monitor such a viable organ as the Central Nervous System CNS on a routine base without being a specialist in neurology or electroencephalography Thus the book is intended to guide the clinician to use BEG and evoked potential monitoring in a day to day situation without going too deep into technical details As an improvement of cerebral care is needed various representative cases underline the interpretation of EEG power spectra and evoked potential changes in regard to the underlying clinical situation It is hoped that this book will serve as a guide to anyone who considers cerebral monitoring a necessity in today s patient care This may be the anesthesiologist the intensive care therapist the nurse anesthetist as well as the medical personnel in the ICU setting Current Practice of Clinical Electroencephalography John S. Ebersole,Timothy A. Pedley,2003 The standard setting clinical electroencephalography textbook has been rewritten for the next decade of EEG technicians and resident and practicing neurologists This Third Edition reflects the transition of the field to an all digital environment with fundamental changes in data recording analysis and interpretation Drs Ebersole and Pedley are outstanding educators with extensive experience in editing two of the leading journals Journal of Clinical Neurophysiology and Epilepsia respectively In this volume Ebersole and Pedley cover the full range of applications of EEG and evoked potentials in contemporary clinical practice The book explains the most advanced instrumentation and techniques and their use in evaluating various disorders More than 600 illustrations depict both normal and abnormal findings **Continuous EEG Monitoring** Aatif M. Husain,Saurabh R. Sinha,2017-01-04 This book is designed to meet the need for a practically oriented textbook on the rapidly growing field of continuous EEG cEEG monitoring A wide range of key clinical aspects are addressed with explanation of status epilepticus classification criteria for institution of monitoring seizure patterns and their recognition quantitative EEG analysis and neuroimaging in patients undergoing cEEG monitoring The value of cEEG and the nature of cEEG findings in various special situations are then reviewed covering particular pathologies critical care considerations and prognostication Treatments of nonconvulsive status epilepticus NCSE and nonconvulsive seizures NCS are discussed The concluding section is devoted to important administrative issues including billing staffing issues comparison of EEG machines and information technology IT issues Continuous EEG monitoring offers the only reliable means of detecting seizures that are not clinically obvious in critically ill patients Such seizures are common approximately

20% of patients undergoing cEEG monitoring in hospital have NCSE or NCS Against this background many hospitals have started to offer cEEG monitoring as a basis for delivery of appropriate treatment By presenting the state of the art in cEEG monitoring this book will be invaluable to practitioners including neurophysiologists neurologists neurointensivists intensivists neurophysiology and epilepsy fellows and neurology residents **Atlas of Ambulatory EEG** Steven C. Schachter, Donald L. Schomer, 2005-09-29 Atlas of Ambulatory EEG covers the areas of clinical neurophysiology an atlas that comprehensively depicts normal abnormal and artifactual findings from actual ambulatory EEG recordings in a convenient and easily accessible format As the use of ambulatory EEG has increased in recent years the need for a concise atlas of ambulatory EEG has grown significantly since ambulatory EEG tracings are subject to their own unique issues and artifacts often not discussed in standard EEG atlases This book begins with several chapters that introduce the history technology and clinical utility of ambulatory EEG The bulk of the atlas consists of a page by page display of high quality ambulatory EEG excerpts that are easy to review and come with short annotations describing the relevant findings Atlas of Ambulatory EEG is a critical resource for anyone involved in the interpretation of ambulatory EEG studies A handy reference describing EEG patterns in normal and abnormal subjects based upon continuous monitoring techniques from widely used ambulatory EEG equipment A section of EEG patterns without accompanying explanation will test the reader's ability to interpret the waveforms and answers will be given in a separate section Internationally renowned contributors in the field Wide audience including researchers in neurophysiology and neuroscience as well as neurologists *Ambulatory EEG Monitoring* John S. Ebersole, 1989 Cumulated Index Medicus , 1984 *Epilepsy and Intensive Care Monitoring* Bruce Fisch, 2009-10-23 Unlike many other diagnostic procedures EEG now over 80 years old and epilepsy monitoring now over 40 years old have demonstrated their usefulness and stood the test of time Although the benefits of these diagnostic procedures are clear monitoring is currently not available to the majority of patients in need One of the factors limiting broader implementation is the lack of practitioners with special expertise Epilepsy and Intensive Care Monitoring was developed to address this concern This practical volume contains detailed chapters covering all areas of clinical epilepsy monitoring Featuring expert authors from major epilepsy centers this seminal work reviews all current procedures and applications for monitoring adults and children with epilepsy in the Epilepsy Monitoring Unit and the ICU Opening sections are devoted to indications procedures administrative considerations and technical aspects of the Epilepsy Monitoring Unit and ICU monitoring followed by dedicated sections on EEG diagnosis and localization and monitoring of neurological disorders in the Epilepsy Monitoring Unit and ICU The book concludes with special procedures and an Appendix with guidelines for organizing epilepsy monitoring centers and technical aspects of EEG monitoring Key Features include Covers both adult and pediatric Epilepsy Monitoring Unit and ICU monitoring Contains over 235 high quality EEGs and other illustrations including an 8 page color section Comprehensive coverage no other book in this area has comparable breadth and depth Clinical Focus Expert authors

tell you when and how to perform the procedures they discuss **Traumatic Brain Injury** Mark J. Ashley, 2003-12-29
 Traumatic Brain Injury Rehabilitative Treatment and Case Management Second Edition provides therapists case managers and physicians with information about the longer term issues faced by this population Originally titled Traumatic Brain Injury Rehabilitation this new edition updates the clinical information and broadens the scope of the best s Ambulatory EEG Monitoring William O. Tatum, IV, DO, 2017-03-24 With the recent development of new technology and practices in the field of ambulatory EEG aEEG the time is right for a practical reference on the application of aEEG in clinical practice This authoritative guide to prolonged EEG recording outside the hospital or clinic is a valuable resource for anyone involved in long term EEG monitoring and interpretation Bridging the gap between routine scalp EEG and in patient video EEG monitoring aEEG has evolved to provide cost effective high yield high tech recording for evaluation of epilepsy diagnoses nonepileptic attacks quantification of seizures or epileptiform burden and other issues requiring extended EEG observation for paroxysmal neurological events in any environment Bringing together top experts from leading epilepsy centers the book covers equipment technical aspects of recording instrumentation and polygraphic event monitoring artifacts clinical use in adult and pediatric patients sleep recording short term and chronic ambulatory EEG and reimbursement The concluding chapter offers representative case presentations with relevant findings to further enhance the reader s understanding and implementation of key concepts This start to stop survey of current applications is essential reading for a wide range of clinicians practicing in the field of clinical neurophysiology and epilepsy management whether seasoned or in training Key Features Fills the void of when and how to use aEEG in evaluating patients with paroxysmal neurological events and epilepsy Incorporates aEEG into clinical management at all stages of diagnosis and treatment Contains numerous aEEG illustrations and graphics to emphasize key points Includes a chapter on common artifacts that can complicate the interpretation of an aEEG Details the evolving use of chronic intracranial aEEG and wearable devices Illustrative case studies provide pearls and reinforce best practices in aEEG monitoring *Atlas of EEG in Critical Care* Lawrence J. Hirsch, Richard P. Brenner, 2011-08-17 As the population ages technology improves intensive care medicine expands and neurocritical care advances the use of EEG monitoring in the critically ill is becoming increasingly important This atlas is a comprehensive yet accessible introduction to the uses of EEG monitoring in the critical care setting It includes basic EEG patterns seen in encephalopathy both specific and non specific nonconvulsive seizures periodic EEG patterns and controversial patterns on the ictal interictal continuum Confusing artefacts including ones that mimic seizures are shown and explained and the new standardized nomenclature for these patterns is included The Atlas of EEG in Critical Care explains the principles of technique and interpretation of recordings and discusses the techniques of data management and trending central to long term monitoring It demonstrates applications in multi modal monitoring correlating with new techniques such as microdialysis and features superb illustrations of commonly observed neurologic events including seizures hemorrhagic

stroke and ischaemia This atlas is written for practitioners fellows and residents in critical care medicine neurology epilepsy and clinical neurophysiology and is essential reading for anyone getting involved in EEG monitoring in the intensive care unit

Atlas of Epilepsies S.R. Benbadis,R.G. Beran,A.T. Berg,J. Engel, Jr.,A.S. Galanopoulou,P.W. Kaplan,M.

Koutroumanidis,S.L. Moshe,D.R. Nordli, Jr.,J.M. Serratosa,S.M. Sisodiya,W.O. Tatum,T. Valeta,A. Wilner,2010-09-20 Atlas of Epilepsies is a landmark all encompassing illustrated reference work and hands on guide to the diagnosis management and treatment of epilepsy in all its forms and across all age groups The premier text in the field with over one thousand images the Atlas s highly illustrative approach tackles the difficult subject of epileptic seizures and epileptic syndromes accompanied by sequential photographs of each management step Intraoperative photographs are accompanied by detailed figure legends describing nuances subtleties and the thought processes involved in each step providing a fuller understanding of each procedure The Atlas draws on the expertise of over 300 internationally renowned experts and is liberally interspersed with clinical insights and personal vignettes that offer helpful tips technical advice and critical knowledge to the clinician and scholar The thorough and complete table of contents includes dedicated sections or chapters on important topics such as neonatal and pediatric seizures imitators of epilepsy EEG and neuroimaging psychiatric and quality of life aspects of epilepsy and a complete guide to treatment options including current and up to date chapters on pharmaceuticals surgical procedures and additional and alternative treatments No other publication addresses epilepsies as thoroughly and completely as the Atlas of Epilepsies Exhaustive and illustrative convenient and current this reference is sure to be the premier text on epilepsy for many years to come **Intensive Care in Neurology and Neurosurgery** Daniel Agustin Godoy,Gustavo Rene

Piñero,2013-03 Neuromonitoring is the tool of trade in intensive care and should incorporate cutting edge technology with patience repeated clinical observation careful identification of neuroworsening The aim of the book is to be of practical use and to assist the clinical practice of the busy physician The clinical examination belongs to the introductory section of the book and an abundance of technology with specific emphasis on the importance of intracranial pressure comes in the following parts Since the patient with an injured brain can have chances only if other organs and systems as the lungs and the acid base equilibrium etc are preserved a section of the book covers the interactions between the affected brain and other organs The way the brain reacts to different insults has common aspects as inflammatory responses edema etc but also specific features Sections five to nine summarize the most relevant pathologies from ischemic to hemorrhagic lesions trauma tumors etc and also mentions new comers as the specific problems related to the expanding field of neuroradiological interventions Finally neurointensive care does not exist without knowledgeable nurses The intracranial pressure measurement starts or unfortunately ends with a catheter well maintained and that becomes vital when the drainage of hydrocephalus is concerned Dealing with patients with severe brain damage has plenty of ethical implications up to the problems related to brain death and organ donation This book is published in two volumes Neurological and

Neurosurgical Intensive Care Allan H. Ropper, 2004 The standard text and reference on neurological and neurosurgical intensive care is now in its Fourth Edition thoroughly revised to incorporate the latest therapeutic advances and insights from the most recent clinical trials A team of distinguished neuro intensivists offers practical state of the art guidelines for managing the wide range of problems arising in postoperative neurosurgical care and care of patients with acute neurological diseases This edition focuses sharply on the details of therapeutics The authors from leading neuro intensive care units have written the book collectively giving it more cohesiveness and more of an authoritative consensus voice than previous multiauthored editions **NIH Guide for Grants and Contracts** National Institutes of Health (U.S.), 1988

Whispering the Strategies of Language: An Emotional Journey through **Intensive Neurodiagnostic Monitoring**

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