

A Practical Approach to

# Neurophysiologic Intraoperative Monitoring

Second Edition

AATIF M. HUSAIN



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# A Practical Approach To Neurophysiologic Intraoperative Monitoring

**Aatif M. Husain**

## **A Practical Approach To Neurophysiologic Intraoperative Monitoring:**

**A Practical Approach to Neurophysiologic Intraoperative Monitoring** Aatif M. Husain, MD,2008-02-21 A Practical Approach to Neurophysiologic Intraoperative Monitoring covers all aspects of neurophysiologic intraoperative monitoring NIOM which is increasingly being used to continuously assess the functional integrity of a patients nervous system during surgery With training in NIOM seldom available in traditional programs this book is the only practical source for essential information on the clinical practice of NIOM The book is divided into two convenient sections Section One Basic Principles covers the modalities used in monitoring as well as the rarely discussed topics of remote monitoring billing ethical issues and a buyer s guide for setting up a laboratory Section Two reviews anatomy physiology and surgery of the various procedures followed by details of the monitoring modalities and their interpretive criteria Special features include Portability easy to carry and use Includes all major types of surgeries for which NIOM is requested Information on buying training set up and billing that is not available anywhere else A unique technical section at the end of each chapter that reviews the logistics of monitoring a particular type of surgery Useful for trainees and experienced clinicians With wide use of bullet points tables and illustrations this pocket sized manual is essential reading for neurologists neuroanesthesiologists neurosurgeons and OR techs

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**A Practical Approach to Neurophysiologic Intraoperative Monitoring, Second Edition , A Practical Approach to Neurophysiologic Intraoperative Monitoring, Second Edition** Aatif M. Husain,2014-12-11 Because of its direct clinical applications this is a good purchase for any neurological and neurosurgical library Doody s Reviews I would certainly recommend this book to any technologist who monitors in the operating room American Journal of Electroneurodiagnostic Technology This is a fundamental resource for physicians technologists and other health

professionals who need to acquire state of the art skills in neurophysiologic intraoperative monitoring NIOM It covers basic aspects of monitoring describes the clinical and technical requirements for monitoring specific types of surgeries and addresses the administrative aspects of running an NIOM service The second edition has been updated to incorporate the vast amount of new information and techniques that have evolved since the publication of the first edition This includes expanded coverage of each of the modalities used in monitoring SEP MEP BAEP EEG and EMG which are now discussed in individual chapters training curriculum for neurophysiologists and technologists policies and procedures for NIOM labs and accreditation and certification New applications and clinical innovations are interwoven throughout and there is a completely new chapter on the use of NIOM in movement disorders surgery Of value to practitioners at any level of experience the book is now divided into three sections The first section Basic Principles introduces the reader to the operating room environment anesthetic considerations and the various monitoring modalities The second section Clinical Methods reviews the use of NIOM in specific types of surgeries Many of these chapters are co written by a neurophysiologist and technologist and present an overview of the particular surgery relevant anatomy monitoring modalities data interpretation warning criteria and technical considerations A unique third section Administrative Issues has been added to this edition to address technical aspects of NIOM machines remote monitoring billing ethical and legal issues and training requirements for physicians and technologists The final two chapters are devoted to setting up and maintaining an NIOM service and include sample policies and procedures Key Features Provides a wealth of current information on NIOM for day to day case management Covers all modalities and practical applications of NIOM for specific surgeries Contains detailed information on training setup billing equipment lab protocols and running a service Appeals to NIOM providers at every level Combines the perspectives of physicians and technologists who together author surgical chapters

[A Practical Approach to Neurophysiologic Intraoperative Monitoring, Second Edition](#) Aatif M. Husain,2014-12-11 Print CourseSmart **Clinical Neurophysiology**

**Board Review Q&A, Second Edition** Puneet K. Gupta,Pradeep N. Modur,Srikanth Muppidi,2020-09-09 Note to Readers Publisher does not guarantee quality or access to any included digital components if book is purchased through a third party seller Updated and expanded this second edition of the proven high yield highly illustrated clinical neurophysiology board review is designed to help candidates assess and refine their knowledge in all domains tested on the exam With over 880 structured multiple choice questions answers and detailed rationales this comprehensive review mimics the testing environment with the question types and formats you will find on the exam Every question has been vetted and refreshed where needed and new questions have been added to reflect changes to the updated ABPN Clinical Neurophysiology exam content blueprint The book is a valuable study tool for initial certification or MOC review and covers anatomy and physiology electronics and instrumentation nerve conduction studies and EMG EEG evoked potentials and intraoperative monitoring sleep studies ethics and safety and advanced topics including SEEG QEEG MEG autonomic testing and more A unique Pearls

for Passing chapter provides a quick hit review of key facts before the exam Clinical Neurophysiology Board Review Q A Second Edition is a one stop review for any neurology exam or practice area involving clinical neurophysiologic testing Written by experienced authors who are collectively board certified in all of the areas covered this indispensable resource provides the knowledge and confidence you need to succeed on exam day and every day Key Features Contains over 880 board style questions covering all areas of Clinical Neurophysiology with over 80 newly added questions to this edition Each question has 5 answer choices along with detailed rationales Includes more than 160 state of the art digital images to ensure familiarity with clinical neurophysiologic studies and findings that form a significant part of any certifying exam Includes free access to the ebook for review on mobile devices and computers **Illustrated Manual of Clinical Evoked Potentials**

Aatif M. Husain,2017-08-28 Evoked potentials have been used for decades to assess neurologic function in outpatient studies and are now routinely used in the operating room during surgery Illustrated Manual of Clinical Evoked Potentials is a modern practical guide to performing these studies and interpreting the results The book is uniquely organized as a singular resource that provides the necessary background for understanding and conducting evoked potential studies It functions as a multi purpose text atlas and reading session with numerous examples of studies and findings and discussion of key takeaways Divided into five chapters the book opens with an introduction to the basics of data acquisition and interpretation that lays the foundation for the modality specific chapters that follow The next group of chapters are in depth reviews of visual brainstem auditory and somatosensory evoked potentials Each of these chapters lays out the specifics of the modality and study protocol with examples to show how things should and should not be done Sample studies with discussions about how to interpret them highlight a particular aspect of normalcy or pathology Imaging correlates are provided to emphasize salient points and offer perspective The final chapter is an overview of the use of evoked potentials during surgery with imaging and case discussions to introduce the reader to this very important application Key Features Detailed review of methodology of evoked potential studies Many examples of actual patient studies with imaging correlates Interpretation of each evoked potential study presented in detail Reading session like discussion of each example Special chapter on evoked potentials in the operating room **Atlas of Artifacts in Clinical Neurophysiology** William O. Tatum,2018-11-01 This atlas serves as a comprehensive working reference for a wide range of clinicians practicing in the field of clinical neurophysiology including adult and pediatric neurologists epileptologists neurocritical care specialists and electroneurodiagnostic technologists

Covering EEG EMG MEG evoked potentials sleep and autonomic studies and ICU critical care and intraoperative monitoring expert authors share examples of common and novel artifacts and highlight signature features to help practitioners recognize patterns and make accurate distinctions This visual compendium of information in atlas format addresses the artifact in all areas of clinical neurophysiology and highlights the traps and pitfalls that can taint studies and lead to misdiagnosis if not properly identified Atlas of Artifacts in Clinical Neurophysiology provides full page examples of waveforms and recordings to

enhance appreciation of the nuances involved in distinguishing artifacts from neurological findings that require intervention. With the most up to date information available on artifacts present during procedures in both adult and pediatric patients this book provides readers with an in depth understanding of artifact interpretation that is essential to any clinician working in the field of clinical neurophysiology given the ubiquitous nature of artifact during electrophysiological recording.

**Features** The only dedicated reference on artifacts in all areas of clinical neurophysiologic testing. Large format examples of both common and unusual artifacts encountered in each procedure category. Up to date text in each chapter provides greater depth of explanation. Draws on the expertise and clinical wisdom of leading practitioners to develop mastery in recognizing artifacts and avoiding diagnostic pitfalls. Includes access to the digital ebook and 19 videos.

[The Basics of Intra-Operative Neurophysiological Monitoring for the Clinician](#) Chulananda Goonasekera, Emma-Jane Smith, 2021-06-02

Intra operative neuromonitoring (IONM) refers to a diverse and evolving collection of techniques used to provide real time assurance of neurological integrity during surgery. Most frequently utilised during neurosurgical procedures the use of IONM has increased dramatically over recent years and there is an ongoing need for structured and accessible information in its principles implementation and interpretation. This dynamic book provides a practical overview of IONM in simple language and clearly illustrated. Uniquely it is authored by experienced multidisciplinary clinicians affiliated to King's College Hospital NHS Foundation Trust a regional neurosciences centre in London UK. Combining the expertise of anaesthetists, physiologists, surgeons and patients themselves this guide represents an invaluable source of information for all staff and trainees involved in the pre intra and postoperative care of patients undergoing IONM.

[The Audiologist's Handbook of Intraoperative Neurophysiological Monitoring](#) Paul R. Kileny, 2018-06-15

The Audiologist's Handbook of Intraoperative Neurophysiological Monitoring is a comprehensive and practical guide on cranial nerve intraoperative monitoring for audiology students and audiologists. The author shares his expertise gained from years of experience in the operating room with other audiologists and health care providers. The handbook was written with the student fellow and relatively novice monitoring clinician in mind. However individuals beyond a beginner level can also benefit from this book which is illustrated with cases and appropriate figures to guide the learning and reviewing of intraoperative monitoring applications. The topics will also be of assistance and interest to other health care providers seeking information about intraoperative monitoring specifically training IOM technologists and otolaryngology or neurosurgery residents and fellows. The initial chapters of the handbook introduce the reader to basic tenants of electromyography, evoked potential recording and neuroanatomy. The following chapters detail intraoperative monitoring for seven different surgical procedures most commonly encountered by audiologists. The last two chapters focus on considerations for establishing a neuromonitoring program including five specific protocols that could be used step by step in the operating room to set up and conduct neuromonitoring for a surgical procedure. In addition to this comprehensive review of intraoperative monitoring readers will benefit from the videos.

illustrating neurophysiological events occurring during surgical procedures **ICA-based Epileptic Seizure Detection Using ECoG Signals** Yu Han,2011 **Practical Guide for Clinical Neurophysiologic Testing** Thoru Yamada,Elizabeth Meng,2012-03-28 This book provides advanced content that begins where the Practical Guide for Clinical Neurophysiologic Testing EEG ends This advanced guide more geared to neurology fellows than to electroneurodiagnostic technologists discusses evoked potentials including visual brainstem auditory and somatosensory EPs The author covers intraoperative neurophysiologic monitoring epilepsy monitoring long term bedside EEG monitoring and sleep studies Companion wesbite includes fully searchable text quiz bank and image bank Intraoperative Neurophysiologic Monitoring Aage R. Møller,1995 The field of intraoperative monitoring IOM has expanded geometrically in recent years as it has been shown to be an effective way to reduce neurological deficits and thus is an indispensable aid to neurosurgeons The most up to date comprehensive book in the field this practical guide covers both basic and advanced methods technologies and procedures involved in measuring various neuroelectric potentials during surgical procedures This book will be useful in carrying out an increasing number of operations by explaining the physiological basis of IOM and the performance of IOM in neurologic patients Intraoperative Neurophysiology Mirela V. Simon, MD,2009-12-11 Neurophysiologic intraoperative monitoring IOM neurologic monitoring during complex operative procedures is increasingly used to help prevent damage to the nervous system during surgery Intraoperative Neurophysiology discusses all aspects of IOM with a hands on approach to this challenging and exciting new frontier Everything is covered from set up monitoring and mapping troubleshooting interpretation of results and medical management Interweaving contributions from neurologists and surgeons the book presents a practical integrated blueprint for effective neurophysiological testing in the operating theater Intraoperative Neurophysiology is visual and comprehensive in scope and coverage It begins by reviewing basic neurophysiologic and neuroanatomic knowledge and presents detailed technical information on each basic test providing the foundation necessary for choosing the right test and customizing monitoring and mapping according to the specifics of individual surgical procedures Intraoperative Neurophysiology utilizes a unique structure to provide insights into successful monitoring practices and techniques The book uses the steps of each surgical procedure as the skeleton upon which the IOM procedure is built thereby presenting a developmental step by step approach to IOM procedures and the possible complications and pitfalls that may arise at different moments of the surgery In addition it promotes and encourages the use of EEG in the operating room and offers unprecedented coverage of ECoG functional mapping and EEG monitoring With over 275 illustrations numerous tables and the most important clinical points made in writing and exemplified graphically Intraoperative Neurophysiology Monitoring and Mapping delivers in words and pictures everything one needs to know to master the art and science of intraoperative neurophysiologic procedure and reduce the operative risk of neurological damage in surgical patients International Journal of Neuroscience ,1996 Primer of Intraoperative Neurophysiologic

Monitoring Garfield B. Russell, Lawrence D. Rodichok, 1995 A useful thorough introduction to assessment of intraoperative neurologic function combining all aspects of neurophysiologic assessment EEG evoked potentials ICP TCD etc The text includes basic physiology and pathophysiology and stresses important points

**Practical Guide for Clinical Neurophysiologic Testing: EP, LTM/ccEEG, IOM, PSG, and NCS/EMG** Thoru Yamada, Elizabeth Meng, 2022-08-16

Focusing on the technical aspects of clinical neurophysiologic testing Practical Guide for Clinical Neurophysiologic Testing EP LTM ccEEG IOM PSG and NCS EMG 2nd Edition offers comprehensive guidance on neurophysiologic testing that picks up where the companion Practical Guide for Clinical Neurophysiologic Testing EEG ends Dr Thoru Yamada and Elizabeth Meng provide advanced content on evoked potentials intraoperative monitoring long term EEG monitoring epilepsy monitoring sleep studies and nerve conduction studies All chapters have been updated to incorporate recent advancements and new studies and articles

**Intraoperative Neurophysiological Monitoring in Hemifacial Spasm** Sang-Ku

Park, Byung-Euk Joo, Kwan Park, 2021-08-10 This book is a comprehensive and up to date guide to intraoperative neurophysiological monitoring in patients with hemifacial spasm one of the very few neuromuscular disorders that can be treated surgically It covers various aspects including brainstem auditory evoked potentials lateral spread response free running EMG and prognosis and intraoperative hearing loss patterns In particular we present detailed explanations and realistic pictures of various and subtle changes in the waveform of brainstem auditory evoked potentials and postoperative hearing In addition detailed explanations and actual photos are provided for various cases such as when the amplitude of the lateral spread response is slightly smaller during surgery when it is lost and then measured again or when the surgery is terminated without disappearing The various situations that may occur during surgery are fully covered and the causes of and solutions to particular challenges are clearly described In addition the results of each test and their association with the postoperative prognosis are explained in detail The authors have vast experience and recognized expertise in the performance of microvascular decompression surgery and intraoperative neuromonitoring The book draws on their practical knowledge and many scientific contributions to offer the very latest insights into the management of hemifacial spasm It will be an excellent guide for young neurosurgeons neurological monitoring technologists and neurological interpreters

**Neuromonitoring in Surgery** John E. Desmedt, 1989 This book deals with developments in the highly topical field in Clinical Neurophysiology of namely the use of spinal or brain evoked potentials nerve stimulation or transcranial motor stimulation for monitoring function in the course of neurosurgical or orthopedic interventions It is designed for the surgeons anesthesiologists neurologists and clinical neurophysiologists who are increasingly concerned about how best to deal with the many faceted challenges of monitoring the functional integrity of central or peripheral nervous systems in the operating theater Emphasis is placed on a variety of state of the art monitoring methodologies and results that are relevant for specific surgical interventions on the brain brainstem spinal cord spinal roots plexus or peripheral nerves Also included are data

about the practical design of facilities pitfalls to be avoided recent trends and advances The inclusion of detailed protocols for the various monitoring methods should be found of practical value to implement a wide variety of surveillance issues

*Neurology Examination and Board Review, Third Edition* Nizar Souayah, 2017-08-11 1 200 Q A s provide the ultimate review for the neurology boards McGraw Hill Specialty Board Review Neurology Third Edition is the fastest and most effective way to prepare for the neurology certification recertification exams administered by the American Board of Psychiatry and Neurology You will find everything you need in one comprehensive review questions answers thorough explanations valuable full color illustrations and a presentation that simulates what you will actually see on the boards Designed to sharpen differential diagnosis skills McGraw Hill Specialty Board Review Neurology delivers more than 1 200 questions and answers with detailed explanations for correct and incorrect answers using the current literature for references This unique review includes coverage of every topic found on the exam including psychiatry and pediatric neurology Completely updated questions reflect the new neurology board format 8 page full color insert Helps you remember must know details on diagnostic testing and the neurological examination Prepares you for the entire range of clinical neurology questions

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