



# **A Practical Approach to Neurophysiologic Intraoperative Monitoring, Second Edition**

*Aatif M. Husain MD*

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*“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



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