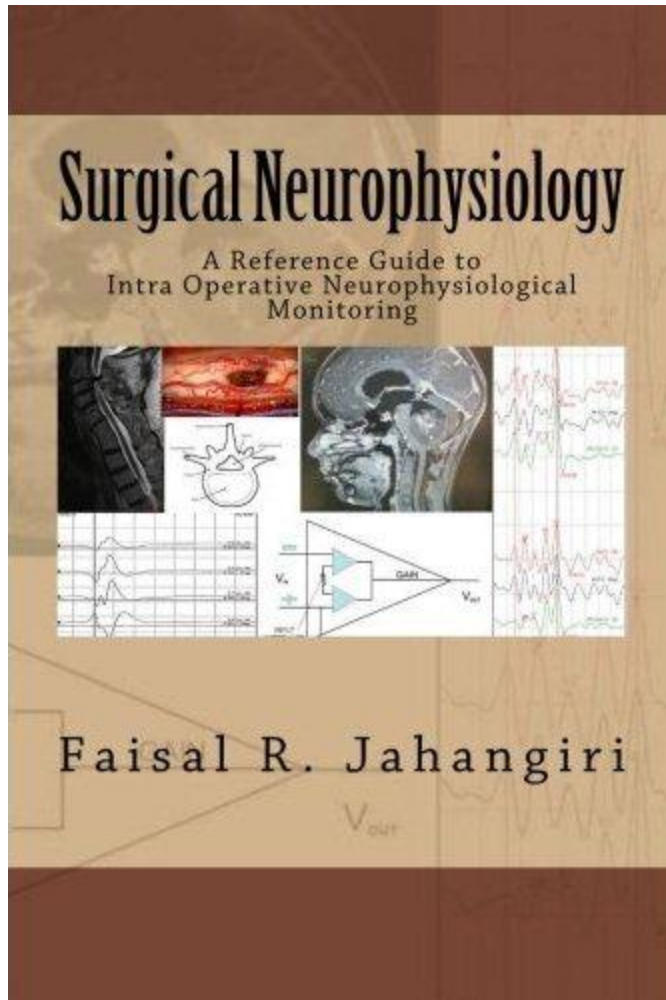


# SURGICAL NEUROPHYSIOLOGY

FAISAL R. JAHANGIRI, MD. CNIM, D.ABNM



This book is a quick reference guide to anyone who is involved in intraoperative neurophysiological monitoring (IONM). It explains the basics of various recording techniques. It also explains the understanding of electrophysiology, signal generation, and troubleshooting based upon published guidelines. This book is written in a new style focusing on the key topics for mastering the techniques and modalities of IONM during high risk neuro, orthopedic, vascular, ENT and general surgical procedures.

There are 11 quizzes with 600 multiple choice questions designed to be used as learning tool for each topic. The quizzes should be taken as a mock

exam for preparation for neurophysiological board exam. This is the largest pool of the questions available for preparation and learning. This is an excellent resource for someone who has just started training or ready to take an exam. These questions are designed to cover many examination topics for easy understanding and memorization.

Neurophysiology technologists, neurophysiologists, neurologists, as well as anesthesia, neurosurgery, orthopedic, and ENT residents can all use this book for a better understanding of the basics of surgical neurophysiology. All questions covers important topics covered in CNIM examination. This book is targeted to anyone who is involved in IONM.

## AUTHOR BIO:

**Faisal Riaz Jahangiri, MD** is currently working as a Consultant Clinical Neurophysiologist & Neurologist in the Division of Neurology, Department of Medicine at King Abdulaziz Medical City, King Fahad National Guard Hospital in Riyadh, Kingdom of Saudi Arabia. After completing his medical school and residencies in general surgery and radiology, he completed his graduate studies in the field of Biomedical Engineering at Case Western Reserve University (CWRU) in Cleveland, Ohio, USA. His research included Functional Electrical Stimulation (FES), EEG, and 3-D imaging for reconstructive plastic surgery. He has also taught in the schools of Medicine and Dentistry at CWRU at the graduate level. Over the past decade, Dr. Jahangiri has performed and supervised more than 5000 surgical procedures in more than 300 hospitals across more than 25 states in the USA. He is an experienced surgical neurophysiologist with experience in monitoring during neurosurgical, orthopedic, otolaryngology (ENT), and vascular surgeries, as well as interventional procedures and monitoring in intensive care units (ICU) and epilepsy monitoring units (EMU). Dr. Jahangiri is board certified and is a diplomate of the American Board of Neurophysiologic Monitoring (D.ABNM). He has multiple publications and has been invited as a guest speaker at various national and international meetings. He is actively involved with ASNM (American Society of Neurophysiological Monitoring), ASET (Neurodiagnostic Society), SSET (Southern Society of Electroneurodiagnostic Technologists), NASS (North American Spine Society), and APPNA MERIT (Association of Physicians of Pakistani Descent of North America - Medical Education & Research International Training & Transfer of Technology) program. Dr. Jahangiri is a member of the board of trustees for SSET, and is also a member of the ASNM newsletter editorial committee and a reviewer for a neurophysiological journal. Dr. Jahangiri is actively involved in philanthropic efforts for intraoperative neurophysiological monitoring in underdeveloped countries

**Surgical Neurophysiology**  
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