1. Record Nr. UNINA9910743381703321

Titolo	Multi-Modal EEG Monitoring of Severely Neurologically Ill Patients / / edited by Xuefeng Wang, Feng Li, Suyue Pan
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	9789811644924 9811644926 9789811644931 9811644934
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (360 pages)
Collana	Medicine Series
Disciplina	616.8047547
Soggetti	Neurology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Part 1 Electroencephalogram (EEG) Basis and quantitative Electroencephalogram (qEEG) Technology -- 1 Basic theory of EEG -- 2 qEEG monitoring system in severely ill patients -- Part 2 Interpretation and clinical significance of abnormal EEG in severely ill patients -- 3 Common abnormal EEG in neurocrital ill patients -- 4 Abnormal EEG background activity -- 5 Patterns and clinical significance of abnormal sleep EEG -- Part 3 Application of multimodal EEG in severely ill patients -- 6 Application of multimodal EEG in coma patients -- 7 Application of multimodal EEG in HIE -- 8 Application of multimodal EEG in SE -- 9 Clinical application of multimodal EEG in acute ischemic stroke -- 10 Application of multimodal EEG in TBI.-11 Application of multimodal EEG in AE -- 12 Application of multimodal EEG in ICP monitoring -- 13 Application of multimodal EEG in sedation and analgesia -- 14 Application of multimodal EEG in predicting the risk of suicide -- 15 Application of multimodal EEG in the determination of brain death -- 16 Application of the BIS in the ICU -- 17 Application of aEEG in severely ill patients.
Sommario/riassunto	This book provides practical information on applications of multi-modal EEG monitoring in patients with severely neurologically diseases. The First part systematically introduces the modern EEG techniques,

and multi-modal EEG monitoring system for severe neurological illness. In the second part, identification of EEG artifacts and interpretation of common abnormal EEG patterns is presented. Accompanying more than 50 typical cases and 200 EEG records, the following chapters discusses EEG’s changes and clinical significance in coma, ischemic-hypoxic encephalopathy, status epilepsy, Creutzfeldt-Jakob disease, traumatic brain injury, and other diseases in details. In addition, application of multi-modal EEG in monitoring intracranial pressure and predicting suicide risk is also included. It will be a valuable reference for professionals in neurology, neurosurgery, emergency care, psychiatry, technology specialists of EEG and senior nurses with basic EEG monitoring knowledge.