Atlas of EEG Report

(With CD)

By:

Ali A. Asadi-Pooya, M.D. Associate Professor of Epile (olo), Department of Neurology, Shiraz A. acal chool, Shiraz University of Medic 1 Sciences, Mazz, Iran.

Adjunct Research Assistant Property of Neurology
Jefferson Comprehensive Epilepsy Center,
Department of Neurology Chomas Jefferson University,
Chila Telph. a, USA.

Director, Johnston Comprehensive Epilepsy Center,
De Land to f Neurology,
Director, Johnston Comprehensive Epilepsy Center,
De Land to f Neurology, Thomas Jefferson University,
Philadelphia, USA.

Publications of Shiraz University of Medical Sciences



ز اسدی یویا، علی اکبر ۱۳۵۲ ـ سر شناسه

Asadi-Pooya, Ali Akhar

Ali A. Asadi-Pooya, M.D.Michael, R. Sperling Atlas : عوال و تنام بالمارر

of ETG Report

 شیر از : دانشگاه علوم یزشکی شیر از ، ۱۳۹۳ = ۱،۱۴ مر ۱۴۸. مشخصن*ات* بنر

> : ٩٠من جيبي. 44X. F. . . FT91_YALL :

ا فين

ر ده بندی کنگر ه

: انگیسی

كابنده نمايه

أطلس أو ... كترو انسفالوگراهي ... اطاسها

المايكل از .

غفاسه افزود عُدَاليه الرَّهِ 2ه

Sperling, Mic بكي و خدمات مهداتيني در ماني شير از شذلته افزوده

RT FANTAL BING

ر ده بقدی نیو یی شمار و كتابكنايس

Atlas of EEG

(With CD)

Ali A. Asadi-Pooya L.D., Micha, R. Sperling, M.D. Production Ma. 25. eed Nometi, D.M.D. Production Ma 45 ublus.

niversity of Medical Sciences Publication of So. Lay ut: Kelan drayan Pars Institute will: ara Hashemi-Farkhundeh Bagherzadch-Fatemeh Alishahian

thography:Pardis Printed by (Baran 25000 First Edition: 2014 Circulation: 500

ISBN: 978-600-6391-28-1

آهيهن شيبار - بلول کر مخن زند - ساختمان مرکزي دانشگاه علوه پرشکي شهراز - ايازه انتشاوات بانشگاه

تنافن و دورنگار: ۲۵۱۸۴۵-۲۷۱۰ שנו יייור די ויייוי.

يست الكترونيكس . Nashuh'sumsatuir آخرس اينترنتي: http://Nashr.sumsatuir



Introduction

Electroencephalography (EEG) is the recording of the electrical activity of the brain. E. G is a reliable test to assess cerebral function. It are in diagnosis, classification, and trana errent of patients with epilepsy. It has practical uses in conditions other than epilepsy as we'll. Moreover, it is harmless and inexpensive

EEG is an important too, in evaluating patients with epilepsy. When combined with the history and neurological axis ination, the interictal EEG helps confirm the diagnosis of an epilepsy syndrome. The example, in a child with focal motor seizure of the face, the interictal EEG helps confirm diagnosis of benign Rolandic epilepsy of childhood, in the appropriate clinical setting, a 3-Hz generalized spike-and-wave burst confirms a diagnosis of idiopathic generalized epilepsy. Likewise, the ictal EEG may help classify the syndrome, identify the likely source of focal

seizures, and confirm a diagnosis of status epilepticus. EEG is therefore helpful in selection of appropriate antiepileptic drugs for the patients with epilepsy, is valuable in making the diagnosis and management of status epilepticus, prediction of prognosis in epilepsy syndromes and, financy, localization of an area for resection in surgery candidates. In addition, despite a vane is in neuroimaging, EEG remains a valua to the print the evaluation of stuporous and contains a rate of afteration of consciousness is the result of

- Diffuse cerebal dysternion (e.g., due to hepatic encephar am, renal failure or drug intoxication).
- Continue to eptic activity without convulsive movements (non-convulsive status epilepticus).

A systematic approach is essential for EEG in erportion, and when combined with good linical judgment, will improve diagnostic synstivity and specificity and improve therapeutic outcomes. The EEG report is the reflection of such an approach and clinical judgment. It is of utmost importance to describe the findings as clearly and precisely as possible, so that another neurologist

would reach to the same conclusion as we did. It is equally important to write the conclusion and clinical correlation as specifically as possible and a way that is understandable for nonneurologists. Prior to reviewing the EEG, the age of the patient, the reason for the study, the state of the patient, medications, and technical issues must be known. Many find it advisable to l'nit he knowledge of the clinical history before ctaning ine review of the EEG to avoid introducing by an the interpretation; one can always express the recording a second time after the about the suspected clinical diagnosis. An abformality in the EEG should only be reported in a is unequivocal. Both over-interpretation od under-interpretation of the EEG are best voided.

This book is design I as a practical guide for neurology residents, neurologists and epileptologists. It takes a the mentally different approach than other examination aims to serve as a practical, protein oriented reference. The accompanying chich is designed as an atlas, is an illustrated material designed as a practical tool for ncurologists and epileptologists so that they may appropriately identify normal and abnormal

findings, while reading an EEG. The chapters are organized in a way that the reader can easily review relevant information. By reading and reviewing the relevant chapter of this word-organized book, that includes many EEG picture, the reader will learn how to report an EEG.

This book is a clinical guide to interrether EEG findings and preparing a professional report for the EEG. This illustrated book which will include a PowerPoint slid presentation (the accompanying CD), shows many pictures to facilitate the understanding and learning process. The book will provide the material to correctly interpret each and any EEG abnormality (along with the picture) to illustrate the abnormality) as a guide to the enders, and then help them write the report appropriately and professionally. The PowerPoint slide presentation includes the descriptions of EEG findings and also plenty of slides to show the designated findings over and ever gain.

We hope that this text fills an unmet need, and leads to improved patient care.

Note: All the EEG slides and pictures are either from

our own database or derived from our previous publication (Asadi-Pooya AA, Dlugos D, Skidmore C, Sperling MR. Atlas of Electroencephalography Patterns. 2008, Thomas Jefferson University Publications, Philadelphia, USA).