#### **EDITORIAL**

# The New Sleep Scoring Manual—The Evidence Behind The Rules

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The seven manuscripts that comprise this issue of the Journal of Clinical Sleep Medicine are designed as evidence review papers to provide the underpinnings for "The AASM Manual for the Scoring of Sleep and Associated Events: Rules, Terminology, and Technical Specifications" that is being simultaneously published as a separate volume. The rules and specifications of the manual are based on either 1) high levels of evidence from the review papers or, when evidence is insufficient, 2) the results of a standardized consensus process. The seven topical areas of the review papers: digital analysis and reporting parameters, visual scoring, arousal, cardiac events, movements, respiratory events, and pediatric scoring reflect the charge of the scoring manual task forces to develop reference material to support the development of a more comprehensive scoring manual. The authors who crafted the review papers also served as members of the respective task forces for the scoring manual and participated in consensus decisionmaking for the scoring manual.

Each review paper is organized to provide a historical perspective, a review and evidence grading of the validity and/or reliability of measures, and a discussion of future areas for research. Reference to previous standardized scoring and methods has been included, when appropriate, even when these references are based on theoretical considerations, expert opinion, or consensus. The scope of over 1,500 total articles reviewed in the seven manuscripts reflects both a PubMed literature search performed for all human studies, in English, published between 1968 and September 2004, and additional "pearling" of articles by task forces. The criteria for evidence levels generally followed Sackett, although in some instances appropriate modifications were made to complement the nature of the content area. Evidence tables produced by the evidence grading in each review paper are published online at http://www.aasmnet.org/JCSM/Search.aspx. Readers are also referred to the introduction of "The AASM Manual for the Scoring of Sleep and Associated Events: Rules, Terminology, and Technical Specifications" for a more complete discussion of the scoring manual development and a detailed acknowledgement of the many contributors.

In addition to providing reference for the AASM scoring manual development, readers should find that the review papers published in this issue of JCSM provide a comprehensive and current examination of a broad scope of topical areas in polysomnography. Since the AASM scoring manual is an iterative process, future editions of the manual will undoubtedly require a reexamination of evidence to address the rapidly evolving science of the metrics for examining sleep.

# **New Sleep Scoring Manual**

Jasper R. Daube, Devon I. Rubin

#### **New Sleep Scoring Manual:**

Polysomnography for the Sleep Technologist Bonnie Robertson, Buddy Marshall, Margaret-Ann Carno, 2013-10-25 The only sleep technology text written by experienced polysomnography educators Polysomnography for the Sleep Technologist Instrumentation Monitoring and Related Procedures covers the procedural knowledge you need to understand sleep studies A sequential learning model systematically covers electronics instrumentation recording parameters data acquisition ancillary equipment troubleshooting recording quality infection control basic positive pressure therapy and cardiopulmonary monitoring and intervention essential to polysomnography In depth discussions of polysomnographic technology in the clinical evaluation physiological monitoring and testing instrumentation diagnosis infection control management and prevention of a wide spectrum of sleep related disorders and daytime alertness offers comprehensive coverage of polysomnography technology Expert content written by the same authors who were instrumental in producing a standardized model curriculum outline Unique sequential approach builds concepts over time and simplifies the material s complexity Over 150 full color graphs charts and illustrations supply visual guidance End of chapter review questions help you assess your knowledge and prepare for certification as a sleep technologist Chapter outlines learning objectives key terms and a bulleted chapter summary supplies a standard format to help you identify and focus on key content Maintenance of sleep and Wake: New Circuits and Insights Michael Lazarus, Sakiko Honjoh, Kaspar Emanuel Vogt, Ada Eban-Rothschild, Yu Hayashi, Qinghua Liu, Takeshi Sakurai, 2020-10-09 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiers in org about contact Hankey's Clinical Neurology Philip B. Gorelick, Fernando D. Testai, Graeme J. Hankey, Joanna M. Wardlaw, 2020-12-29 The rapid expansion of clinical knowledge in the field of neurology warrants a new edition of this highly regarded textbook of neurology In addition to the anchor chapters on major areas such as headache stroke developmental disorders dementia epilepsy acquired metabolic disorders and others several new chapters have been added to meet the clinical demand for those in practice This edition features new chapters on neurotoxicology neuroimaging and neurogenetics including basic and more advanced concepts for the practitioner Finally as the health care system continues to evolve a new chapter on population health and systems of care reflects current practice in team care patient centric approaches and value based care Pithy bullet points and standard prose allow the reader to assimilate concepts and key messages with ease Summary tables neuroimages photomicrographs neuroanatomic drawings gross and microscopic neuropathologic specimen photos graphics and summary boxes further

enhance the text Chapters are crafted in a way to appeal to both the visuospatial and analytic functional centers of the brain as we stimulate the senses and learn Hankey's Clinical Neurology Third Edition will be of value to medical students physicians in training neurology fellows neurologist and neurosurgeon practitioners and advanced practice professionals e q nurse practitioners and physician assistants who are faced with neurologic practice challenges **World Congress on** Medical Physics and Biomedical Engineering September 7 - 12, 2009 Munich, Germany Olaf Dössel, Wolfgang C. Schlegel, 2010-01-04 Present Your Research to the World The World Congress 2009 on Medical Physics and Biomedical Engineering the triennial scientific meeting of the IUPESM is the world's leading forum for presenting the results of current scientific work in health related physics and technologies to an international audience With more than 2 800 presentations it will be the biggest conference in the fields of Medical Physics and Biomedical Engineering in 2009 Medical physics biomedical engineering and bioengineering have been driving forces of innovation and progress in medicine and healthcare over the past two decades As new key technologies arise with significant potential to open new options in diagnostics and therapeutics it is a multidisciplinary task to evaluate their benefit for medicine and healthcare with respect to the quality of performance and therapeutic output Covering key aspects such as information and communication technologies micro and nanosystems optics and biotechnology the congress will serve as an inter and multidisciplinary platform that brings together people from basic research R D industry and medical application to discuss these issues As a major event for science medicine and technology the congress provides a comprehensive overview and in depth first hand information on new developments advanced technologies and current and future applications With this Final Program we would like to give you an overview of the dimension of the congress and invite you to join us in Munich Olaf D ssel Congress President Wolfgang C

Personal Comfort Systems for Improving Indoor Thermal Comfort and Air Quality Faming Wang, Bin Yang, Qihong Deng, Maohui Luo, 2023-05-31 This book first describes fundamental knowledge on human thermal comfort adaptive thermal comfort thermal comfort in sleeping environments modeling of human thermal comfort and thermal comfort assessment using human trials Next it presents an in depth review of concept progress and evaluation of various personal comfort system summarizes important findings and feasible applications current gaps as well as future research needs The seven chapters included in this section are task ambient conditioning systems personalized ventilation systems electric fans personal comfort systems thermoelectric systems personal thermal management systems and wearable personal thermal comfort systems This book provides valuable guidance for personal comfort system design and further improvement on the personal comfort performance It will be a valuable resource for academic researchers engineers in industry and government regulators in the field of sustainable buildings and built environment Niedermeyer's Electroencephalography Donald L. Schomer, Fernando Lopes da Silva, 2012-10-18 The leading reference on electroencephalography since 1982 Niedermeyer's Electroencephalography is now in its thoroughly updated Sixth Edition An international group of experts provides

comprehensive coverage of the neurophysiologic and technical aspects of EEG evoked potentials and magnetoencephalography as well as the clinical applications of these studies in neonates infants children adults and older adults This edition s new lead editor Donald Schomer MD has updated the technical information and added a major new chapter on artifacts Other highlights include complete coverage of EEG in the intensive care unit and new chapters on integrating other recording devices with EEG transcranial electrical and magnetic stimulation EEG TMS in evaluation of cognitive and mood disorders and sleep in premature infants children and adolescents and the elderly A companion website includes fully searchable text and image bank Clinical Neurophysiology Jasper R. Daube, Devon I. Rubin, 2009-05-22 Clinical Neurophysiology Third Edition will continue the tradition of the previous two volumes by providing a didactic yet accessible presentation of electrophysiology in three sections that is of use to both the clinician and the researcher The first section describes the analysis of electrophysiological waveforms Section two describes the various methods and techniques of electrophysiological testing The third section although short in appearance has recommendations of symptom complexes and disease entities using electroencephalography evoked potentials and nerve conduction studies *Neurophysiology* Devon I. Rubin, 2021-06-04 Clinical neurophysiologic testing plays a critical role as a complement to the clinical assessment in patients who are being evaluated for a variety of neurologic symptoms Many different techniques and methods of assessment can be used to evaluate the function of the nervous system including electroencephalography electromyography evoked potentials movement disorder studies and sleep studies An accurate understanding of the role of these tests and reliable technical performance and interpretation of these studies is critical in clinical practice. This new edition in the Contemporary Neurology Series remains an essential resource for physicians and technologists learning or utilizing clinical neurophysiology in their training or practice This fifth edition updates the basic concepts underlying each of the techniques used in clinical neurophysiology and provides detailed descriptions of the methods findings studies and value of the wide range of electrophysiologic testing available for patients with epilepsy and spells neuromuscular diseases movement disorders demyelinating diseases sleep disorders autonomic disorders and those undergoing orthopaedic and neurosurgical procedures in the operative setting The role of each type of study the interpretation of findings and the application of the studies to different types of clinical problems are detailed throughout the text It is a practical textbook for neurologists physiatrists and clinical neurophysiologists in clinical or research practice or in training **Issues in** Neurology and Neuroscience: 2013 Edition, 2013-05-01 Issues in Neurology and Neuroscience 2013 Edition is a Scholarly Editions book that delivers timely authoritative and comprehensive information about Additional Research The editors have built Issues in Neurology and Neuroscience 2013 Edition on the vast information databases of ScholarlyNews You can expect the information about Additional Research in this book to be deeper than what you can access anywhere else as well as consistently reliable authoritative informed and relevant The content of Issues in Neurology and Neuroscience

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Mizrahi,2010-04-30 Revised and updated Neurology Secrets 5th Edition has the answers you need A two color page layout portable size and a list of the Top 100 Secrets in neurology help you better meet the challenges you face today You ll find all the features you rely on from the Secrets Series a question and answer format lists mnemonics tables and an informal tone that make study or reference fast and easy Expedites reference and review with a question and answer format bulleted lists mnemonics and practical tips from the authors Features a two color page layout Key Points boxes and lists of useful web sites to enhance your reference power Presents a chapter containing Top 100 Secrets providing you with a quick and concise overview of essential material for last minute study or self assessment Fits comfortably in the pocket of your lab coat to allow quick access to essential information when you need it the most Presents completely revised chapters covering all of today s most common neurologic conditions and their treatment to keep you up to date

The book delves into New Sleep Scoring Manual. New Sleep Scoring Manual is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into New Sleep Scoring Manual, encompassing both the fundamentals and more intricate discussions.

- 1. This book is structured into several chapters, namely:
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