

REVIEW

The Neurophysiology of Sleep in Parkinson's Disease

Hengameh Zahed, MD, PhD,^{1*} Jose Rafael Pantoja Zuzuarregui, MD,¹ Ro'ee Gilron, PhD,² Timothy Denison, PhD,² Philip A. Starr, MD, PhD,² and Simon Little, MBBS, MRCP, PhD³

¹Department of Neurology, University of California, San Francisco, San Francisco, California, USA

²Department of Neurological Surgery, University of California, San Francisco, San Francisco, California, USA

³Institute of Biomedical Engineering and MRC Brain Network Dynamics Unit, University of Oxford, Oxford, UK

ABSTRACT: Sleep disturbances are among the most common nonmotor complications of Parkinson's disease (PD), can present in prodromal stages, and progress with advancing disease. In addition to being a symptom of neurodegeneration, sleep disturbances may also contribute to disease progression. Currently, limited options exist to modulate sleep disturbances in PD. Studying the neurophysiological changes that affect sleep in PD at the cortical and subcortical level may yield new insights into mechanisms for reversal of sleep disruption. In this article, we review cortical and subcortical recording studies of sleep

in PD with a particular focus on dissecting reported electrophysiological changes. These studies show that slow-wave sleep and rapid eye movement sleep are both notably disrupted in PD. We further explore the impact of these electrophysiological changes and discuss the potential for targeting sleep via stimulation therapy to modify PD-related motor and nonmotor symptoms. © 2021 International Parkinson and Movement Disorder Society

Key Words: sleep; electrophysiology; Parkinson's disease; deep brain stimulation

Sleep is a fundamental biological process driven by distinct electrophysiological rhythms within the brain.¹ It has been found to be vital to health and severely disrupted in neurodegenerative disorders such as Alzheimer's disease and Parkinson's disease (PD).^{2,3} From the first essay by James Parkinson on "the shaking palsy," PD has foremost been considered a movement disorder.⁴ However, the last 2 decades have brought an explosion in our understanding of the myriad nonmotor manifestations of PD.^{5–8} More recently, a

particular appreciation of the strong association between PD and sleep disorders has emerged.^{9–11}

A wide spectrum of sleep disorders have been implicated in PD, encompassing disorders of sleep–wake transition as well as parasomnias involving abnormal movements during various phases of sleep.^{12–15} The most common PD-associated disturbances in sleep–wake transitioning include increased sleep latency, frequent awakenings, and sleep fragmentation, resulting in wakefulness after sleep onset (WASO) and reduced total sleep time.^{6,16–23} The parasomnias associated with PD have also gained much attention and include rapid eye movement sleep behavior disorder (RBD), periodic limb movements in sleep (PLMS), and restless legs syndrome.^{12–14} Sleep disorders such as RBD can even be the first prodromal symptom of PD prior to the emergence of formal motor symptoms.^{10,24,27} Altogether, sleep disorders were the second most prevalent nonmotor complaint among a large cohort of PD patients, affecting about 64% of patients (PRLAMO study).⁶ Sleep dysfunction in PD also represents a significant strain on caregivers and can predict earlier transfer to nursing homes.^{28–30} Sleep disorders therefore impact the majority of patients with PD and produce troublesome symptoms for which currently limited treatment options exist.^{31–33}

***Correspondence to:** Dr. Hengameh Zahed, MD, PhD 505 Parnassus Ave., Box 0114, M-798, San Francisco, CA 94143, USA; E-mail: hengameh.zahed@ucsf.edu

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Sleep 1974 Instinct Neurophysiology Endocrinology
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Wolfgang von der Linden



Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology:

Indexes to the Epilepsy Accessions of the Epilepsy Information System J. Kiffin Penry, 1978 **Sleep & Dreaming** D. Cohen, 2013-10-22 Sleep and dreaming are manifestations in higher organisms of a fundamental circadian rhythm of inactivity activity During the past thirty years research has provided a great deal of new information about the phenomenon and phenomenology of sleep and the relationship between sleep and wakefulness This book aims to describe organise and interpret some of this new knowledge in order to stimulate a greater appreciation of the role of sleep and dreaming in human adaptation The study of sleep and dreaming provides a very special perspective on human functioning It stands in direct contrast to more traditional paradigms utilised in psychology that place the locus of explanation of human behaviour in the external environment **Sleep 1974** ,1975 Sleep Disorders Part II Pasquale Montagna, Sudhansu Chokroverty, 2012-11-27 Sleep Disorders II covers various aspects of sleep disorders These include the different classification of sleep disorders the genetic influences of sleep disorders abnormality in the sleeping pattern and the circadian rhythm sleep disorder A sleep disorder is a medical disorder that affects the sleeping patterns of humans and sometimes animals The disruptions in sleep can be caused by different factors such as teeth grinding night terrors and the like The book also discusses different perspectives on insomnia and hypersomnia According to the International Classification of Sleep Disorders insomnia is a sleep that is low in quality or a difficulty in sleeping On the other hand hypersomnia is a sleeping disorder characterized by excessive daytime sleepiness EDS or prolonged nighttime sleep The book discusses narcolepsy a syndrome that is characterized by excessive daytime sleepiness that is associated with cataplexy and other REM sleep phenomena The different medicines for this disease are also discussed People who are practicing neurology and internal medicine especially those in pulmonary cardiovascular gastrointestinal renal and endocrine specialties will find this book valuable A comprehensive resource for the study of sleep science sleep medicine and sleep disorders Fascinating noninvasive neuroimaging studies that demonstrate marked changes during different sleep states A state of the art reference that summarizes the clinical features and management of many of the neurological manifestations of sleep disorders Indexes to the Epilepsy Accessions of the Epilepsy Information System ,1981 **SLEEP 1974: INSTINCT, NEUROPHYSIOLOGY, ENDOCRINOLOGY, EPISODES, DREAMS, EPILEPSY AND INTRACRANIAL PATHOLOGY- PAPERS PRESENTED AT THE 2ND EUROPEAN CONGRESS ON SLEEP RESEARCH- EUROPEAN SLEEP RESEARCH SOCIETY. ,**

Biological Barriers in Behavioral Medicine Wolfgang von der Linden, 2013-11-11 A New Looking Glass for Behavioral Medicine In 1984 John Briggs a science writer and specialist in interdisciplinary studies teaching at the New School for Social Research and F David Peat a physicist who was for many years a fellow with the National Research Council of Canada published a book about the revolutions that were taking place in physics mathematics chemistry biology and neurophysiology and about the scientists whose new theories were changing our understanding about the nature of the universe

The title of their book was Looking Glass Universe after Lewis Carroll s classic story of Alice and her friends Through the Looking Glass Briggs and Peat s book is a well written challenging volume about human beings and how they think about old problems in new and sometimes startling ways I mention Briggs and Peat s book only partially because I happen to have a personal interest in the potential applications of new ways of looking at and thinking about nature and data derived from modern physics and systems theory for health psychology and behavioral medicine e g Schwartz 1984 In a letter Wolfgang Linden wrote to me on January 23 1987 he shared with me at my request his rough thoughts about his personal goals for this book

Psychotropic Agents ,2012-12-06 The description of the pharmacology of psychotomimetics cannabis and alcohol in this third volume concludes the discussion on psychotropic agents As psychomotor stimulants these groups of psychotropic agents are of little or no therapeutic relevance but since they are used in a nonmedical manner or are even considered by some groups of the population as social commodities their behavioral effects and psychopharmacological properties are not the concern of the pharmacologist alone The same is true of psychotomimetics as well as cannabis and its components Psychotomimetics have a social history going back many hundreds of years and are among the most potent psychotropic agents known to man The closing description of psychopharmacology also deals with the psychotropic effects of a number of drugs not primarily considered to be psychotropic Their psychotropic effects are either an inherent constituent of their therapeutic profile as is the case with opiates hypnotics and caffeine or they may occur indirectly as side effects or accompanying effects during therapy This applies to p adrenoreceptor antagonists and anticholinergics The editors are also aware that a description of psychotropic agents would not have been complete without discussing the medical ethical and legal aspects of the development clinical testing and use of such drugs

Sleep 1974 P. Levin,Werner Paul Koella,1975
Neuroendocrinology ,1977 **Sleep '84** Werner Paul Koella,Eckart R  ther,Hartmut Schulz,1985 *Sleep Disorders* Pasquale Montagna,Sudhansu Chokroverty,2011 The second part of a two part work in the Handbook of Clinical Neurology series on sleep disorders **Epilepsy, Sleep, and Sleep Deprivation** R. Degen,Ernst Niedermeyer,1984 Index of Conference Proceedings Received 1974-1978 British Library. Lending Division,1979 **Sleep 1976** ,1977
Endocrinology Index ,1977 **International Journal of Neuroscience** ,1977 *Sleep Research* ,1977 **Sleep, 1978** European Sleep Research Society,1978 **Neuropsychobiology** ,1977

Reviewing **Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Table of Contents Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology

1. Understanding the eBook Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - The Rise of Digital Reading Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - Advantages of eBooks Over Traditional Books
2. Identifying Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And

- Intracranial Pathology
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - Personalized Recommendations
 - Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology User Reviews and Ratings
 - Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology and Bestseller Lists
- 5. Accessing Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology Free and Paid eBooks
 - Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology Public Domain eBooks
 - Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology eBook Subscription Services
 - Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology Budget-Friendly Options
- 6. Navigating Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology eBook Formats
 - ePub, PDF, MOBI, and More
 - Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology Compatibility with Devices
 - Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - Highlighting and Note-Taking Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - Interactive Elements Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And

Intracranial Pathology

8. Staying Engaged with Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
9. Balancing eBooks and Physical Books Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - Setting Reading Goals Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - Fact-Checking eBook Content of Sleep 1974 Instinct Neurophysiology Endocrinology Episodes Dreams Epilepsy And Intracranial Pathology
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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