



Review

# Pharmacological Treatments of Sleep–Wake Disorders: Update 2023

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**Abstract:** Biological, environmental, behavioral, and social factors can influence sleep and lead to sleep disorders or diseases. Sleep disorders are common, numerous, and heterogeneous in terms of their etiology, pathogenesis, and symptomatology. The management of sleep–wake circadian disorders (SWCDs) includes education on sleep hygiene, behavioral strategies, psychotherapy (cognitive behavioral therapy (CBT), particularly), instrument-based treatments (i.e., positive airway pressure therapy, hypoglossal nerve stimulation), and pharmacotherapy. Depending on the disease, therapy varies and is executed sequentially or can be a combination of several forms of therapy. Drugs used for SWCDs include traditional sleep- or wake-promoting agents and chronotherapeutic agents. Recently, novel medications, which more precisely act on specific neurochemical systems (i.e., the orexin system) important for sleep and waking, are also increasingly being used. In this review, the pharmacotherapy of common sleep disorders (insomnia, sleep-related breathing disorder, central disorders of hypersomnolence, circadian rhythm sleep–wake disorders, parasomnias, and sleep-related movement disorders) embedded in the overall therapeutic concept of each disorder is presented. There is also an outlook on possible future pharmacotherapies.

**Keywords:** pharmacotherapy; sleep–wake disorders; hypersomnolence; restless legs; syndrome; parasomnias; sleep-related breathing disorders; insomnia; circadian disorders



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## 1. Introduction

There is a growing understanding of the neurobiology and functions of sleep and its effects on human health, including brain and mental health [1]. More than 1/3 of the global population reports sleep loss [2,3]. Insufficient or irregular sleep and sleep–wake disorders adversely affect human health in several dimensions, with both immediate effects such as sleepiness, impairment at work, or reduced psychosocial well-being as well as increased risk for (i.e.,) dementia, stroke, cardiovascular disorders, and depression [4–6].

There is also a high economic burden of sleep disorders. In a European study from 2010, the costs of disorders of the brain were calculated. The burden of sleep disorders was high and comparable with mental and neurological disorders [7], i.e., for narcolepsy, the direct and indirect costs reached €10,000 per patient, annually. Recently, several professional societies have aimed at increasing awareness, education, and research on sleep and moving healthcare policy towards healthy sleep [1,6,8].

The neurobiology of sleep and wakefulness is complex and includes not only wake- or sleep-promoting systems but also homeostatic, circadian, and motivational processes [9,10]. The neurobiology of sleep is beyond the scope of this review, and reference is made to the relevant literature.

Biological factors, environmental, behavioral, and social factors all can influence sleep. The individual may influence some of these factors, such as sleep times, sleep duration, or

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This book delves into Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996. Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996, encompassing both the fundamentals and more intricate discussions.

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

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- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996. The first chapter will explore what Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 is, why Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 is vital, and how to effectively learn about Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996.
3. In chapter 2, this book will delve into the foundational concepts of Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996. This chapter will elucidate the essential principles that must be understood to grasp Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 in its entirety.
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October 9 10 1996 can be effectively utilized in everyday scenarios.

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6. In chapter 5, the author will draw a conclusion about Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996. The final chapter will summarize the key points that have been discussed throughout the book.

The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996.

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## **Table of Contents Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996**

1. Understanding the eBook Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
  - The Rise of Digital Reading Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
  - Advantages of eBooks Over Traditional Books
2. Identifying Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
  - 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 Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
  - User-Friendly Interface
4. Exploring eBook Recommendations from Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
  - Personalized Recommendations
  - Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 User Reviews and Ratings
  - Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 and Bestseller Lists
5. Accessing Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 Free and Paid eBooks
  - Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 Public Domain eBooks
  - Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 eBook Subscription Services
  - Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 Budget-Friendly Options
6. Navigating Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 eBook Formats
  - ePub, PDF, MOBI, and More
  - Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 Compatibility with Devices
  - Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996 Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996

- Highlighting and Note-Taking Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
  - Interactive Elements Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
8. Staying Engaged with Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
9. Balancing eBooks and Physical Books Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
- Setting Reading Goals Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
- Fact-Checking eBook Content of Sleep Wake Disorders Proceedings Of A Japanese German International Symposium Held In Erfurt Germany October 9 10 1996
  - 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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