

# Spindle Coma: Observations and Thoughts

Aurea Nogueira de Melo, Gregory L. Krauss and E. Niedermeyer

## Key Words

Brainstem Reticular Formation  
CNS Damage, Acute  
Coma  
Electroencephalography  
Sleep vs Coma  
Spindle Coma

## INTRODUCTION

The occurrence of sleep spindles in patients with impaired consciousness and possible coma was first noted by Jasper and Van Buren;<sup>1</sup> these patients suffered from deep-seated neoplastic lesions (hypothalamus, posterior fossa). On a larger scale, spindle activity as well as vertex waves and K complexes in comatose patients with CNS trauma were reported by Chatrian and coworkers.<sup>2,3</sup>

The reports of Chatrian and his associates kindled much interest in spindle coma and the existence of this type of coma was subsequently confirmed.<sup>4-16</sup> In these studies, cranio-cerebral trauma was found to be the predominant or even sole cause of spindle coma. Nevertheless, spindle coma has proved to be of polyetiological nature; this has been most clearly confirmed by Britt<sup>12</sup> who presented 36 nontraumatic cases.

The conjunction of physiological sleep EEG patterns and coma has not ceased to baffle the investigators of this phenomenon, which asks for an explanation. Hardly any hypothesis or concept has been offered with the remarkable exception of Chatrian.<sup>17</sup>

Spindle coma is a thought-provoking electroclinical entity. This mere fact has been the incentive for this report.

## MATERIAL AND METHODS

This study is based upon 11 patients who were observed over a 32 month period from January 1987 to August 1989. There were 4 male and 7 female patients; their ages were 7 months, 15, 16, 19, 21, 22, 25, 27, 28, 34 and 46 years. The depth of coma was regarded as light in 3 and profound in 8 patients. "Light coma"

resembled "stupor";<sup>18</sup> these patients were shortly responsive to strong arousing stimuli.

The etiologies of the comatose state are listed in Table 1. All patients had nontraumatic etiologies. This fact, however, is related to sampling, since patients with acute severe CNS trauma were usually treated in the Neurological Critical Care Unit where the use of EEG is essentially limited to complications in the course. The patient material was collected from the files of the EEG Laboratory; the clinical data were gleaned from the charts.

Almost all of the EEG studies were done as bedside (portable) recordings with the use of a 10-channel EEG apparatus. Gold-plated silver cup electrodes were placed according to the International (10-20) System. All of these EEG studies were routine recordings of rather limited duration; no prolonged diurnal or nocturnal sleep recording was carried out.

## RESULTS

### Case Reports

The most relevant clinical and EEG data are presented in Table 1. Two cases, however, with unusual clinical and EEG features are singled out as case reports.

### Case S.E.

#### CLINICAL DATA

A 19-year-old woman was admitted with meningoencephalitis associated with fever, progressive stupor, coma and CSF lymphocytosis. The patient was mechanically ventilated and treated with general medical support. Neurological examination was significant for deep

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# Thoughts From A Coma

**RJ Shavelson**



## Thoughts From A Coma:

**Thoughts from a Coma** Glenn Bagley,2004-04-01 The author gives full acknowledgment to the many denizen spirits both good and evil that grace the soul To the winds that force the author in directions he or she fears to go There are so many stories to tell built on the foundations of promises made in one s youth Moments in time to timeless moments the boundaries are not limited by courage or the length of wick Such is the case with the verse contained within these pages Written without bias or restrictions the stories are of life lust love death innocence and torment The candle grows weary And with a breath goes out *Happiness and Well-Being* Chris Heathwood,2021-11-04 This Element provides an opinionated introduction to the debate in moral philosophy over identifying the basic elements of well being and to the related debate over the nature of happiness The question of the nature of happiness is simply the question of what happiness is as opposed to what causes it or how to get it and the central philosophical question about well being is the question of what things are in themselves of ultimate benefit or harm to a person or directly make them better or worse off **Education for well-being** Dr.Nitin Bajpai,Dr Abhishek Sengar,2024-08-01 Present book is to offer the readers with the latest development of positive psychology which is a demand of the modern society Education for Well being meet the needs of an individual society and nation This book will helpful to understand concept and real meaning of well being It describes the role of positive emotions such as happiness contentment as well as the development of one s potential The chapters will develop the sense of belonging which involves processing of the guiding beliefs and value to seek harmony what lies as well as the forces outside Along with all other readers this book is beneficial for teachers and students of education and psychology subjects for their better understanding [The Concordance Repertory of the More Characteristic Symptoms of the Materia Medica](#) William Daniel Gentry,1892 **Mississippi Valley Medical Journal** ,1954 [Sleep as the Great Opportunity, Or, Psychoma](#) Helen Rhodes Wallace,1920 **The Encyclopedia of Sleep and Sleep Disorders** Charles Pollak,Michael J. Thorpy,Jan Yager,2010 Praise for the previous edition provide s a good background for anyone interested in the subject easy to use **Blind Spot** Nancy Bush,2010-07-01 An exciting compelling thriller with a winding plot that keeps you captivated until the end from the New York Times bestselling author of Unseen Fresh Fiction What you don t see The crime scene at an Oregon rest stop is brutal beyond belief a young man s lifeless body cut to ribbons and his pregnant girlfriend left alive but comatose What you don t know Psychologist Claire Norris is assigned to treat the survivor at a private mental hospital But there are no clues to the identity of the catatonic Jane Doe A difficult job only becomes more complicated with the arrival of ex homicide detective Langdon Stone who questions Claire s every move Can kill you Reluctantly working together Claire and Lang begin to unravel the chilling truth about a twisted case one with ties to a killer who is right in their midst eager to see a mission of evil through to its terrifying end Engrossing twists you won t see coming Karen Rose New York Times bestselling author Praise for Nancy Bush s Unseen Full of twists and surprises I couldn t put it down Lisa Jackson 1 New York

Times bestselling author An eerie suspense novel woven with a compelling romance the terrifying denouement will have readers riveted Publishers Weekly A creative and mysterious tale with a number of twists including a surprise ending Romantic Times *Psychcoma (soul-sleep)* Helen Kelsey Rhodes Wallace,1913 *Electroshock* Max Fink,2002-12-19 Electroshock therapy has long suffered from a controversial and bizarre public image effectively removing it as a treatment option for many patients In *Electroshock* Max Fink M D draws on 45 years of clinical and research experience to argue that ECT is now a safe painless and sometimes life saving treatment for emotional and mental disorders Dr Fink traces the development of ECT from its discovery in 1934 followed by widespread use for two decades to the 1950s when it was largely replaced by the introduction of psychotropic drugs to its revival in the past twenty years as a viable treatment He provides actual case studies of patients who have been treated with ECT and illustrates that many disorders such as depression mania catatonia and schizophrenia respond well to it As he explains the whole procedure from preparation to recovery we see what the patient experiences Fink also shows how anesthesia and muscle relaxation have refined ECT minimizing discomfort and reducing risks to a level far lower than those experienced by patients using psychotropic drugs routinely prescribed for the same problems Clarifying the many misconceptions surrounding ECT *Electroshock* is an excellent sourcebook for patients their families and mental health professionals *A Dictionary of Practical Materia Medica* John Henry Clarke,1900 *The Medical Bulletin* ,1890 **California. Court of Appeal (4th Appellate District). Division 1. Records and Briefs** California (State)., Number of Exhibits 1 **The Pacific Coast Journal of Homeopathy** ,1900 **We Prisoners of War** Tracy Strong,1942 *Life Understood from a Scientific and Religious Point of View* Frederick Lawrence Rawson,1920 **In The Appellate Division of the Supreme Court of the State of New York** , *Compend of Medicine and Surgery* ,1927 *The Friend* ,1874 **The Doris Case of Multiple Personality** ,1916

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## **Table of Contents Thoughts From A Coma**

1. Understanding the eBook Thoughts From A Coma
  - The Rise of Digital Reading Thoughts From A Coma
  - Advantages of eBooks Over Traditional Books
2. Identifying Thoughts From A Coma
  - 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 Thoughts From A Coma
  - User-Friendly Interface
4. Exploring eBook Recommendations from Thoughts From A Coma
  - Personalized Recommendations
  - Thoughts From A Coma User Reviews and Ratings
  - Thoughts From A Coma and Bestseller Lists
5. Accessing Thoughts From A Coma Free and Paid eBooks

- Thoughts From A Coma Public Domain eBooks
  - Thoughts From A Coma eBook Subscription Services
  - Thoughts From A Coma Budget-Friendly Options
6. Navigating Thoughts From A Coma eBook Formats
- ePub, PDF, MOBI, and More
  - Thoughts From A Coma Compatibility with Devices
  - Thoughts From A Coma Enhanced eBook Features
7. Enhancing Your Reading Experience
- Adjustable Fonts and Text Sizes of Thoughts From A Coma
  - Highlighting and Note-Taking Thoughts From A Coma
  - Interactive Elements Thoughts From A Coma
8. Staying Engaged with Thoughts From A Coma
- Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Thoughts From A Coma
9. Balancing eBooks and Physical Books Thoughts From A Coma
- Benefits of a Digital Library
  - Creating a Diverse Reading Collection Thoughts From A Coma
10. Overcoming Reading Challenges
- Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Thoughts From A Coma
- Setting Reading Goals Thoughts From A Coma
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Thoughts From A Coma
- Fact-Checking eBook Content of Thoughts From A Coma
  - 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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