

## CHAPTER 12

# Natural History of Cerebral Palsy

**ABSTRACT:** The natural course of CP has changed greatly during the past 50 years. If appropriate health care is available, affected children without significant comorbidities have actuarial survival approaching that of the general population.

An understanding of the natural history of CP is essential for a proper prognosis and provision of support services. The natural history of untreated CP is one of progressive deterioration. It has been shown that without intervention, detrimental changes in gait and function will occur over time span as short as 1.5 years. The impact of skeletal growth during childhood can compound the primary neurological problem if muscles fail to lengthen in proportion to their adjacent long bones; and spastic muscles have been shown to grow more slowly than normal. Therefore, although CP is by definition a static neurological lesion and a disorder of motor function, the phenotype has also been labelled a 'progressive neuromuscular deformity'. During adolescent growth spurt, many patients gain substantial weight, their gait worsens and become wheelchair bound. Important items include prognosis for life expectancy, walking, and hand function. The symptoms range from a mild gait abnormality to profound total body involvement. The standardized mortality ratios for CP in all ages, is significantly raised. There is a sharp fall in SMR after 14 years though mortality remains higher from ischemic heart disease and cancer than in the general population.

**KEYWORDS** Predicting the ability to walk, Walking beyond the second decade of life, Hand function: use it or lose it, Life expectancy, Quality of life and costs of caring, Medicolegal aspects

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The impact of skeletal growth during childhood can compound the primary neurological problem

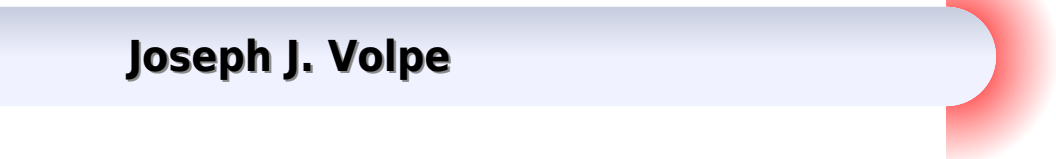
if muscles fail to lengthen in proportion to their adjacent long bones; and spastic muscles have been shown to grow more slowly than normal. Therefore, although CP is by definition a static neurological lesion and a disorder of motor function, the phenotype has also been labeled a 'progressive neuromuscular deformity' (Graham 2002). The symptoms range from a mild gait abnormality to profound total body involvement.

### Survival

Children with total body involvement and bulbar difficulties, necessitating alternative feeding, are

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**Joseph J. Volpe**



## Natural History Of Cerebral Palsy:

Neurology of the Newborn Joseph J. Volpe, 2008-01-01 Provides the insights in neonatal neurology This title describes from the discoveries in genetics through the advances in the diagnosis and management of neurologic disorders It delivers clinical guidance you need to provide effective care for neonates with neurological conditions **The Natural History of Cerebral Palsy** Bronson Crothers, Richmond Shepard Paine, 1988 Child Neurology John H. Menkes, Harvey B. Sarnat, Bernard L. Maria, 2006 Revised to incorporate the latest advances in the neurosciences and clinical neurology the Seventh Edition of this classic text provides practical cost effective problem solving approaches to all diseases affecting the developing nervous system In clinically relevant terms the book explains how recent developments in molecular biology genetics neurochemistry neurophysiology neuropathology and neuroimaging impact on diagnosis and treatment Chapters focus on specific disorders or groups of disorders and emphasize differential diagnosis disease course treatment and prognosis This edition has a new chapter on mitochondrial cytopathies *Bradley and Daroff's Neurology in Clinical Practice - E-Book* Joseph Jankovic, John C. Mazziotta, Scott L. Pomeroy, 2021-03-23 A practical dynamic resource for practicing neurologists clinicians and trainees Bradley and Daroff's Neurology in Clinical Practice Eighth Edition offers a straightforward style evidence based information and robust interactive content supplemented by treatment algorithms and images to keep you up to date with all that's current in this fast changing field This two volume set is ideal for daily reference featuring a unique organization by presenting symptom sign and by specific disease entities allowing you to access content in ways that mirror how you practice More than 150 expert contributors led by Drs Joseph Jankovic John C Mazziotta Scott L Pomeroy and Nancy J Newman provide up to date guidance that equips you to effectively diagnose and manage the full range of neurological disorders Covers all aspects of today's neurology in an easy to read clinically relevant manner Allows for easy searches through an intuitive organization by both symptom and grouping of diseases Features new and expanded content on movement disorders genetic and immunologic disorders tropical neurology neuro ophthalmology and neuro otology palliative care pediatric neurology and new and emerging therapies Offers even more detailed videos that depict how neurological disorders manifest including EEG and seizures deep brain stimulation for PD and tremor sleep disorders movement disorders ocular oscillations EMG evaluation cranial neuropathies and disorders of upper and lower motor neurons as well as other neurologic signs Enhanced eBook version included with purchase Your enhanced eBook allows you to access all of the text figures and references from the book on a variety of devices Morality: A Natural History Roger V. Moseley, 2019-10-17 What is morality and what is the source of our moral ideas Philosophers have explored these questions for centuries suggesting that both emotion and reason play roles but failing to explain how and why Homo sapiens developed these ideas Author Roger Moseley argues that evolutionary forces that optimize human welfare provide the missing explanation Morality A Natural History presents a multi disciplinary analysis of the topic and reveals a common thread among the seemingly

diverse fields of religion neuroscience experimental psychology and game theory child development evolution and animal behavior and anthropology and sociology When humans first appeared a simple self interested survival morality sufficed As societies became more complex however rules of behavior became necessary to limit conflict and promote cooperation The brain evolved producing language that allowed the articulation of moral ideas which were codified and enforced by religion and social forces No species lasts forever and it is at our peril today that we neglect those evolved moral values of cooperation altruism truthfulness and empathy Rooted in scientific evidence and interspersed with personal anecdotes and humorous observations Moseley provides a unique perspective on the natural history of morality how it appeared evolved and continues to evolve today *Morality A Natural History* is essential reading for academics and laypersons alike who seek to understand the origin and essence of human morality *Exceptional Children: Biological and Psychological Perspectives* James R. Frazier, Dianne M. Frazier, 1974 **Encyclopedia of the Neurological Sciences**, 2014-04-29 The Encyclopedia of the Neurological Sciences Second Edition Four Volume Set develops from the first edition covering all areas of neurological sciences through over 1000 entries focused on a wide variety of topics in neurology neurosurgery psychiatry and other related areas of neuroscience The contributing authors represent all aspects of neurology from many viewpoints and disciplines to provide a complete overview of the field Entries are designed to be understandable without detailed background knowledge in the subject matter and cross referencing and suggested further reading lead the reader from a basic knowledge of the subject to more advanced understanding The easy to use encyclopedic dictionary format of the Encyclopedia of the Neurological Sciences Second Edition features alphabetic entries extensive cross referencing and a thorough index for quick reference The wealth of information provided by these four volumes makes this reference work a trusted source of valuable information for a wide range of researchers from undergraduate students to academic researchers Provides comprehensive coverage of the field of neurological science in over 1 000 entries in 4 volumes Encyclopedic dictionary format provides for concise readable entries and easy searching Presents complete up to date information on 32 separate areas of neurology Entries are supplemented with extensive cross referencing useful references to primary research articles and an extensive index *A History of Psychology* William Douglas Woody, Wayne Viney, 2023-07-19 This seventh edition of *A History of Psychology* The Emergence of Science and Applications traces the history of psychology from antiquity through the early twenty first century giving students a thorough look into psychology s origins and key developments in basic and applied psychology It presents internal disciplinary history as well as external contextual history emphasizing the interactions between psychological ideas and the larger cultural and historical contexts in which psychologists and other thinkers conduct research teach and live It also has a strong scholarly foundation and more than 400 new references This new edition retains and expands the strengths of previous editions and introduces several important changes The text features more women people of color and others who are historically marginalized as well as new sections about early Black

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*DeLisa's Physical Medicine and Rehabilitation: Principles and Practice*  
Walter R. Frontera, Joel A. DeLisa, Bruce M. Gans, Lawrence R. Robinson, 2019-05-30 DeLisa s Physical Medicine and Rehabilitation Principles and Practice presents the most comprehensive review of the state of the art evidence based clinical recommendations for physiatric management of disorders affecting the brain spinal cord nerves bones joints ligaments muscles and tendons

Reproductive and Perinatal Epidemiology Michele Kiely, 2019-06-04 First Published in 1990 Reproductive and Perinatal Epidemiology reviews topics that are central to reproductive and perinatal epidemiology as well as the methodological issues surrounding research in maternal and child health Important topics covered include prenatal care Sudden Infant Death Syndrome SIDS epidemiology of neonatal brain hemorrhage early pregnancy methodological issues in drug epidemiology environmental exposures and reproduction and occupational exposures and reproduction This book is essential reading for clinicians researchers obstetricians pediatricians and graduate students in public health

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