

Archives of Disease in Childhood, 1982, 57, 418-424

Pulmonary sequelae of neonatal respiratory distress in very low birthweight infants: a clinical and physiological study

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SUMMARY Twenty infants, mechanically ventilated in the neonatal period for respiratory distress syndrome, were compared with 15 healthy controls, matched for birthweight (less than 1501 g) but greater in mean gestational age. Clinical features and lung mechanics (by whole body plethysmography) were recorded at 6-monthly intervals until about one year. The neonatal course of the mechanically ventilated infants was commonly complicated by tracheobronchial hypersecretion and the later course by a fairly high incidence of lower respiratory tract illness. In this group, thoracic gas volume, dynamic compliance, pulmonary and airways conductance were all abnormal during the middle 4 months of the first year and reverted towards normal towards the end of the first year. The control group had normal lung mechanics. Early lung function tests were of limited value in predicting later lower respiratory tract illness, which was more common in boys, after neonatal mechanical ventilation for longer than 24 hours or raised ambient oxygen for longer than 5 days. There were few predictive physical signs. In this group of very low birthweight infants, respiratory distress syndrome of sufficient severity to require mechanical ventilation led to significant physiological and clinical disturbances of lung function which lasted into the second 6 months of life and which were particularly severe in those who had recurrent lower respiratory tract illness.

Recent advances in ventilatory support have improved survival for preterm infants suffering from respiratory distress syndrome (RDS).¹⁻⁴ However, it has become clear that some survivors may develop pulmonary sequelae. Thus bronchopulmonary dysplasia is not rare in infants of low birthweight who are treated with intermittent positive pressure ventilation (IPPV).⁵⁻¹⁰ Chest infections during the first year of life are a common sequel. Several studies of pulmonary mechanics have shown that impaired lung function is not uncommon after IPPV.^{8-11,12} Such effects as these might be expected to be more severe in very low birthweight infants, who form an increasing proportion of newborn infants requiring respiratory intensive care.

This report represents the results of a prospective study of a cohort of infants with birthweight <1501 g admitted to the Premature Baby Unit of Hammersmith Hospital who survived the neonatal period. Pulmonary sequelae were studied clinically, together with investigations of lung mechanics during the first year of life. The aim was to describe

the sequelae and to determine possible aetiological factors.

Patients and clinical management

Patients were drawn from a cohort of 86 infants with birthweight <1501 g admitted to the Premature Baby Unit at Hammersmith Hospital between December 1978 and November 1979. Forty of the 59 surviving infants took part in the study after informed parental consent had been obtained; 19 survivors were not enrolled since it was thought that regular follow-up was unlikely.

For the analysis of lung function tests, the 40 infants followed up were divided into three groups according to diagnosis and early respiratory support. Fifteen of the infants (the control group) had no significant neonatal respiratory disease and required <48 hours of oxygen therapy, although 2 were briefly subjected to IPPV, one for no clear reason at a referring hospital¹³ and the other for 24 hours postoperatively after a laparotomy for intestinal

Sequelae Of Low Birthweight The Vancouver Study Clinics Indevelopmental Medicine No 95 96

David A. Sugden, Helen C. Wright



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Brain Damage in the Preterm Infant Nigel Paneth, Raoul Rudelli, Elias Kazam, William Monte, 1994-01-10 A detailed survey allowing the formulation and testing of hypotheses about the causes and consequences of haemorrhage *Motor Development in Early and Later Childhood* Alex Fedde Kalverboer, Brian Hopkins, Reint Geuze, 1993-02-25 Motor development is an integral part of the developmental process Understanding the organization of the sensory motor system and its adaptations in response to environmental factors is a vital part of understanding individual development as a whole This volume describes and discusses human motor development using longitudinal study methods and from an interdisciplinary perspective [National Library of Medicine Current Catalog](#) National Library of Medicine (U.S.), **Current Concepts in Spina Bifida and Hydrocephalus** Carys M. Bannister, 1991 Over the past decade there have been great advances in the prognosis and treatment of neural tube defects New surgical techniques can increase the life expectancy and improve the quality of life of affected individuals while recent research into vitamin supplementation offers the prospect of hydrocephalus and spina bifida becoming largely a thing of the past The new study brings together these medical advances and also deals with the practical issues which every specialist student family doctor and even the worried parent needs to know For maximum clarity the chapters are arranged chronologically dealing with all the problems that may occur from the prenatal period to adolescence *Statistical Methods in Longitudinal Research* Alexander von Eye, 1990-11-16 These edited volumes present new statistical methods in a way that bridges the gap between theoretical and applied statistics The volumes cover general problems and issues and more specific topics concerning the structuring of change the analysis of time series and the analysis of categorical longitudinal data The book targets students of development and change in a variety of fields psychology sociology anthropology education medicine psychiatry economics behavioural sciences developmental psychology ecology plant physiology and biometry with basic training in statistics and computing [The Neurodevelopment Potential in the Preterm Infant](#) Marianne Forslund, 1992 **Current Catalog** National Library of Medicine (U.S.), First multi year cumulation covers six years 1965 70 [Special Education Outcomes for Premature And/or Low Birth Weight Infants, and the Effects of Prematurity, Intrauterine Growth Retardation, and Socioeconomic Status on Learning Disabilities](#) Michael Thomas Monroe, 1994 **Pediatric Ophthalmology and Strabismus, Expert Consult - Online and Print, 4** Creig S. Hoyt, David Taylor, 2012-01-01 Pediatric Ophthalmology and Strabismus is your one stop source for comprehensive coverage of all the pediatric ophthalmic conditions you are likely to encounter in practice Extensively updated with expert contributions from leaders in the field and now featuring online instructional videos this ophthalmology reference delivers all the state of the art guidance you need to effectively diagnose and manage even the most challenging eye diseases and disorders seen in children Take a holistic approach to patient management that considers the family and ensures optimal doctor patient relationships Get a balanced view of etiology diagnosis and management and access unique guidance on the

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Cognitive Effects of Early Brain Injury Casey Dorman, Bilha Katzir, 1994 This text offers an overview of the effects of genetic prenatal and perinatal brain disorders on cognitive development and learning in children Summarizing the available data as well as presenting previously unpublished research the book aims to provide clinicians with practical information that will aid their diagnostic and therapeutic work with children who have sustained early brain injury The chapters of the book address early neurologic development and pathology genetic and congenital disorders that affect cognition the influences on cognition of toxicants infections and premature birth the results of a follow up study of prematurely born children and the development of language and visuospatial abilities and learning disabilities after early brain injury Throughout the authors present the published literature within a critical framework that aims to allow readers to assess the methodology and draw their own conclusions The book should interest research and clinical neuropsychologists cognitive psychologists psychiatrists and other neuroscientists *Neighborhood Poverty* Jeanne Brooks-Gunn, Greg Duncan, J. Lawrence Aber, 1997-11-06 Perhaps the most alarming phenomenon in American cities has been the transformation of many neighborhoods into isolated ghettos where poverty is the norm and violent crime drug use out of wedlock births and soaring school dropout rates are rampant Public concern over these destitute areas has focused on their most vulnerable inhabitants children and adolescents How profoundly does neighborhood poverty endanger their well being and development Is the influence of neighborhood more powerful than that of the family Neighborhood Poverty Context and Consequences for Children approaches these questions with an insightful and wide ranging investigation into the effect of community poverty on children's physical health cognitive and verbal abilities educational attainment and social adjustment This two volume set offers the most current research and analysis from experts in the fields of child development social psychology sociology and economics Drawing from national

and city based sources Volume I reports the empirical evidence concerning the relationship between children and community As the essays demonstrate poverty entails a host of problems that affects the quality of educational recreational and child care services Poor neighborhoods usually share other negative features particularly racial segregation and a preponderance of single mother families that may adversely affect children Yet children are not equally susceptible to the pitfalls of deprived communities Neighborhood has different effects depending on a child's age race and gender while parenting techniques and a family's degree of community involvement also serve as mitigating factors Volume II incorporates empirical data on neighborhood poverty into discussions of policy and program development The contributors point to promising community initiatives and suggest methods to strengthen neighborhood based service programs for children Several essays analyze the conceptual and methodological issues surrounding the measurement of neighborhood characteristics These essays focus on the need to expand scientific insight into urban poverty by drawing on broader pools of ethnographic epidemiological and quantitative data Volume II explores the possibilities for a richer and more well rounded understanding of neighborhood and poverty issues To grasp the human cost of poverty we must clearly understand how living in distressed neighborhoods impairs children's ability to function at every level Neighborhood Poverty explores the multiple and complex paths between community family and childhood development These two volumes provide an indispensable guide for social policy and demonstrate the power of interdisciplinary social science to probe complex social issues

Acta Obstetricia Et Gynecologica Scandinavica, 1997 High-risk Pregnancy Andrew Alexander Calder, William Dunlop (PhD.), 1992

Motor Coordination Disorders in Children David A. Sugden, Helen C. Wright, 1998-08-04 In the last several decades the amount of research focusing on children with motor coordination disorder has steadily risen In Motor Coordination Disorders in Children the authors examine the available literature on the topic using their knowledge of children's motor development They explore the nature of the disorder developmental progressions associated features and long term prognosis The book was written to benefit teachers physiotherapists occupational therapists psychologists and pediatricians who often work with children labeled as clumsy or maladroit Topics covered include what motor coordination disorders look like how they are assessed the nature of the disorder and its development progression and intervention The first volume of its kind Motor Coordination Disorders in Children will be a valuable resource for professionals and students in clinical and counseling psychology developmental psychology nursing social work and family studies

The Case for Preconception Care of Men and Women Margaret Wynn, Arthur Wynn, 1991 Discusses care before conception and the outcome of pregnancy susceptible periods in women men's susceptibility before conception effects of nutrient imbalance on reproduction when a woman's diet affects the outcome of her pregnancy mutagens and antimutagens infectious illness before conception how premature ageing in men and women can affect reproduction etc Information Sources in the Medical Sciences Leslie Thomas Morton, S. Godbolt, 1992 Developmental Disabilities in Infancy and Childhood Arnold J. Capute, Pasquale J.

Accardo,1991 **Canadiana** ,1987
Julian Bennett,Jonathan Punt,1988

Fetal and Neonatal Neurology and Neurosurgery Malcolm I. Levene,Michael

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