

# Neurological sequelae of healthcare-associated sepsis in very-low-birthweight infants: Umbrella review and evidence-based outcome tree

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Sepsis is a frequent cause of death in very-low-birthweight infants and often results in neurological impairment. Its attributable risk of sequelae has not been systematically assessed. To establish an outcome tree for mapping the burden of neonatal sepsis, we performed systematic literature searches to identify systematic reviews addressing sequelae of neonatal sepsis. We included cohort studies and performed meta-analyses of attributable risks. Evidence quality was assessed using GRADE. Two systematic reviews met inclusion criteria. The first included nine cohort studies with 5,620 participants and five outcomes (neurodevelopmental impairment, cerebral palsy, vision impairment, hearing impairment, death). Pooled risk differences varied between 4% (95% confidence interval (CI):2–10) and 13% (95% CI:5–20). From the second review we analysed four studies with 472 infants. Positive predictive value of neurodevelopmental impairment for later cognitive impairment ranged between 67% (95% CI:22–96) and 83% (95% CI:36–100). Neonatal sepsis increases risk of permanent neurological impairment. Effect size varies by outcome, with evidence quality being low to very low. Data were used to construct an outcome tree for neonatal sepsis. Attributable risk estimates for sequelae following neonatal sepsis are suitable for burden estimation and may serve as outcome parameters in interventional studies.

## Introduction

Sepsis is a major cause of death in neonates [1]. The majority of sepsis episodes (>80%) occurs in preterm neonates [2]. Among very low birth weight infants (VLBW;<1,500g), rates of sepsis range between 11% and 46% [3]. Sepsis in this high-risk population is mostly acquired during hospital stay with a late onset

beyond 48–72 hours of life. Early onset sepsis, which becomes apparent within the first 48–72 hours of life is ‘nosocomial’ in the sense that it occurs in the hospital but should not be considered healthcare-associated because its origin is linked to childbirth and/or maternal-fetal transmission of pathogens [4,5].

Neonatal sepsis and systemic inflammatory response syndrome (SIRS) are associated with brain damage that results in disability, particularly among preterm and VLBW infants [6–9]. However, adverse neurological outcomes frequently occur in VLBW infants for reasons other than sepsis [10]. Therefore, the impact of healthcare-associated neonatal sepsis on adverse outcome is difficult to establish.

A European consortium, as part of a project initiated and funded by the European Centre for Disease Prevention and Control (ECDC), recently developed an incidence- and pathogen-based approach for estimating the burden of communicable diseases expressed in Disability Adjusted Life Years (DALYs) [11]. Relevant health outcomes of communicable diseases are represented by outcome trees which map the weighted progressions of diseases over time by ordering the conditional probabilities of associated health outcomes [11]. Outcome trees take into account probabilities and duration of health outcomes. The burden of healthcare-associated infections (HAIs) was not yet addressed by ECDC for two reasons: (i) Patients with HAIs differ from the general population in terms of comorbidities [7] and may be different regarding other factors as for example certain risk behaviour and social determinants; (ii) HAIs cannot be allocated to a specific pathogen, and thus the pathogen-based approach is not applicable.

**Sequelae Of Low Birthweight The Vancouver Study**  
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*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

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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

*High-risk Pregnancy* Andrew Alexander Calder, William Dunlop (PhD.), 1992      Developmental Disabilities in Infancy and Childhood Arnold J. Capute, Pasquale J. Accardo, 1991      **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

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