

Contents

Foreword	VII
<i>H. Lagercrantz</i>	
 Part I: Development	
• Brain development in the preterm neonate	1
<i>F. Medja, A. Monier, S. Marret, M. Cazillis, C. Verney, P. Gressens</i>	
• Perinatal perceptual development: Some principles derived from psychobiological research	13
<i>B. Schaal, R. Soussignan, G. Coureaud, D. Mellier</i>	
• Sleep in preterm neonates. Organization, development, deprivation	23
<i>V. Zupan-Simunek, J. Sizun</i>	
 Part II: Environment	
• Neonatal development: Effects of light	33
<i>D. Haumont, V. Hansen</i>	
• Effects of positioning and handling on preterm infants in the neonatal intensive care unit	39
<i>K. Bauer</i>	
 Part III: Developmental care	
• Design and staff issues in light control	45
<i>V. Hansen, D. Haumont</i>	
• Developmental care: A breast-feeding perspective	51
<i>K. Hedberg Nyqvist</i>	
• Interventions involving positioning and handling in the neonatal intensive care unit: Early developmental care and skin-to-skin holding	59
<i>K. Bauer</i>	

Contents

• Non-pharmacological pain control in neonates	67
<i>V. Pierrat, N. Goubet, C. Rattaz, T. Debillon</i>	
• The Newborn Individualized Developmental Care and Assessment Program (NIDCAP)	75
<i>B. Westrup, A. Kleberg, K. Stjernqvist</i>	
• Implementing developmental care: Considerations for staff	85
<i>I. Warren, M. Cuttini</i>	
 Part IV: Recommendation for research	
• Clinical evaluation of development for research	93
<i>C. Amiel-Tison, J. Gosselin</i>	
• Electroencephalography and developmental care	101
<i>L. Hellström-Westas, I. Rosén</i>	
• Cerebral Near Infrared Spectroscopy. A useful tool for developmental care research?	109
<i>G. Greisen</i>	
• Is it necessary to prove that developmental care is beneficial?	115
<i>G. Greisen</i>	
• Points of interest for future research	119
<i>H. Lagercrantz, B. Westrup</i>	