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Nota di contenuto	CONTENTS; AUTHORS' APPOINTMENTS; 1 INTRODUCTION Giovanni Cioni and Eugenio Mercuri; References; 2 NEUROPHYSIOLOGICAL BASIS OF DEVELOPMENT Janet Eyre; Introduction; Development of the cortex; Development of afferent somatosensory projections; Corticospinal axonal projection and withdrawal; Spinal innervation; Activity-dependent development of the corticospinal tract; References; 3 NEUROLOGICAL ASSESSMENT IN NORMAL YOUNG INFANTS Eugenio Mercuri, Leena Haataja and Lilly Dubowitz; Development of the Hammersmith Infant Neurological Examination; Validation of the examination Timing and sequence of the examinationPerforming and scoring the examination; Section 1: Neurological examination; Section 2: Developmental milestones; Section 3: Behaviour; Optimality scores; References; 4 CLASSICAL NEUROLOGICAL EXAMINATION IN YOUNG INFANTS WITH NEONATAL BRAIN LESIONS Eugenio Mercuri, Leena Haataja, Daniela Ricci, Frances Cowan and Lilly Dubowitz; Hypoxic-ischaemic encephalopathy; Cerebral infarction; Preterm infants; Other applications; References; 5 OTHER APPROACHES TO NEUROLOGICAL ASSESSMENT Giovanni Cioni, Christa Einspieler and Paola Paolicelli; Introduction

Assessment of general movementsThe 'complementary' neuromotor examination; Behavioural assessment scales; Conclusions; References;

6 MAGNETIC RESONANCE IMAGING OF THE INFANT BRAIN Mary Rutherford, Eugenio Mercuri and Frances Cowan; Introduction; Practical issues; Normal appearances of the developing brain from term to 2 years; Interpretation of scans; Timing of clinical scans; Patterns of injury and prediction of outcome; The infant presenting with neurological abnormalities; References;

7 DIAGNOSTIC AND PROGNOSTIC VALUE OF ELECTROPHYSIOLOGY Enrico Biagioni, Andrea Guzzetta and Giovanni Cioni  
IntroductionThe EEG; Techniques of prolonged EEG monitoring: cerebral function monitoring (CFM); Evoked potentials; References;

8 ASSESSMENT OF THE DEVELOPMENT OF HIGH-RISK INFANTS IN THE FIRST TWO YEARS Samantha Johnson and Neil Marlow; Why should we perform a developmental assessment?; Screening or detailed assessment?; Formal standardized measures of development; Developmental assessment tools; Limitations of standardized tests; Parental measures of development; Summary; References;

9 COGNITIVE DEVELOPMENT IN THE FIRST TWO YEARS OF LIFE Francesco Guzzetta, Chiara Veredice and Andrea Guzzetta  
IntroductionDevelopment of cognitive competence; Assessment techniques; Clinical role of developmental assessment in the first two years of life; References;

10 HEARING, LANGUAGE AND COMMUNICATION Anna Chilosi, Paola Cipriani, Sandra Maestro and Elisabetta Genovese; Hearing screening methods in high-risk newborns; Development of language and communication in the first two years of life; Disorders of communication: early signs of autism; Conclusions; References;

11 DEVELOPMENT OF VISION AND VISUAL ATTENTION Anthony Norcia and Francesca Pei; Introduction; The hierarchy of visual processing  
The development of early vision

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Sommario/riassunto

The book provides a review of the state of the art of neurological assessment in the first two years of life and identifies the most appropriate instruments for the follow-up of newborns who are at risk of developing neurological abnormalities.

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