

1. Record Nr.	UNINA9910457293503321
Titolo	Improving hand function in cerebral palsy [[electronic resource]] : theory, evidence and intervention / / edited by Ann-Christin Eliasson and Patricia A. Burtner
Pubbl/distr/stampa	London, : Mac Keith Press, c2008
ISBN	1-898683-84-0
Descrizione fisica	1 online resource (456 p.)
Collana	Clinics in Developmental Medicine Clinics in developmental medicine ; ; no. 178
Altri autori (Persone)	EliassonAnn-Christin <1950-> BurtnerPatricia A
Disciplina	618.92836
Soggetti	Cerebral palsied children Movement disorders in children - Treatment Hand - Movements Motor ability in children Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	CONTENTS; AUTHORS'APPOINTMENTS; FOREWORD; INTRODUCTION; References; 1 BRAIN PLASTICITY IN DEVELOPMENT AND DISEASE Hans Forssberg; Introduction; Neuroimaging methods used to study brain plasticity; Plasticity in the developing brain; Plasticity in the somatosensory system; Plasticity in the motor system; Learning of new motor skills; Plasticity of the young damaged brain; Clinical considerations; References; 2 CORTICAL CONTROL OF HAND FUNCTION Johann Kuhtz-Buschbeck and Stephan Ulmer; The motor control system - an overview; Neural control of hand movements; Glossary; References 3 NEUROPSYCHOLOGY OF MOVEMENT SEQUENCE LEARNING Fredrik Ullen1 Introduction; 2 Common paradigms in movement sequence learning research; 3 Learning the ordinal structure of a movement sequence; 4 Learning the temporal structure of a movement sequence; 5 Developmental aspects of movement sequence learning; 6 Individual differences in movement sequence learning ability; 7 Conclusion; References; 4 NEUROLOGICAL CLASSIFICATION AND NEURORADIOLOGY

OF CEREBRAL PALSY Ingeborg Krageloh-Mann and Martin Staudt; I
Neurological classification of cerebral palsy
II Neuroradiology of cerebral palsy and upper extremity
dysfunctionReferences; 5 NORMAL ANATOMY OF THEUPPER
EXTREMITYBeth Moody Jones; Introduction; Proximal joints and
muscles; Distal joints and muscles; Innervation of the upper limb;
References; 6 MUSCLE ALTERATIONS DUETO SPASTICITY Eva Ponten;
Hypertonia in childhood; Muscle architecture; Decreased passive
extensibility; Adhesions between muscles and muscle fibres;
Sarcomeres in series; Intracellular alterations; Myosins; Summary;
References; 7 POSTURAL CONTROL FOR REACHING AND HAND SKILLS
Mindy F. Levin and Heidi Sveistrup
Postural controlArm and trunk movement patterns during reaching and
grasping in typicallydeveloping children; Arm and trunk movement
patterns during reaching and grasping inchildren with CP; Interventions
to improve reaching and grasping; Conclusions; References; 8 VISUAL
IMPAIRMENT AND CONSEQUENCES FOR HAND FUNCTION Eugenio
Mercuri, Andrea Guzzetta and Giovanni Cioni; Introduction; Visual
disorders in infants and children with brain lesions and cerebral palsy;
Vision and manipulation in normal development and cerebral palsy;
Visual ventral/dorsal stream and motor action
Visual ventral/dorsal stream disorders in childrenReferences; 9 THE
ROLE OF SENSATION FORHAND FUNCTION IN CHILDREN WITH
CEREBRAL PALSY Annette Majnemer, Daniel Bourbonnais and Victor
Frak; Importance of sensation for refined hand function; Relationship
between sensation and hand function in children withcerebral palsy;
Conclusions; References; 10 TYPICAL AND ATYPICAL DEVELOPMENT OF
THE UPPER LIMB IN CHILDREN Jeanne R. Charles; Introduction; Systems
influencing functional development of the upper extremity; Atypical
development due to prenatal/perinatal CNS damage; Conclusion;
References
11 BIMANUAL COORDINATION IN CHILDREN WITH HEMIPLEGIC
CEREBRAL PALSY Andrew M. Gordon and Bert Steenbergen

Sommario/riassunto

An essential guide to assessing and understanding hand function for
children with cerebral palsy. Also covering interventions and treatment
approaches, especially for clinicians and therapists.
