

Article

Relationship between Sensory Processing Skills and Feeding Behaviors in Children Aged 3–6 Years with Cerebral Palsy with Cerebral Visual Impairment

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Abstract: The current study aimed to examine the relationship between sensory processing skills and feeding behavior in cerebral palsy (CP) children aged 3–6 years with cerebral visual impairment (CVI). A total of ninety mothers participated in the study in three groups: thirty mothers of children with CP with CVI, thirty mothers of children with CP without CVI, and thirty mothers of children with typical development (TD). The sensory processing skill of the children was evaluated with the Sensory Profile (SP), and feeding behavior was evaluated with the Behavioral Pediatric Feeding Assessment Scale (BPFAS). In the triple comparison, a significant difference was found between the groups in all SP parameter and BPFAS scores ($p < 0.001$). Post hoc analysis revealed statistically significant differences between the groups in all parameters ($p < 0.001$). Feeding problems were detected in 65% of all groups. In the correlation analysis, a significant relationship was found between all parameters of the SP and the BPFAS ($p < 0.05$). In terms of sensory processing skills and feeding status, it was determined that children with CVI with CP had more problems than children with CP without CVI, and children with CP without CVI had more problems than children with TD. With these results, it was concluded that sensory processing problems affect feeding status, and visual impairment causes both sensory problems and feeding problems.

Keywords: cerebral visual impairment; cerebral palsy; sensory integration; feeding

Citation: Cemali, M.; Cemali, Ö.; Günel, A.; Pekçetin, S. Relationship between Sensory Processing Skills and Feeding Behaviors in Children Aged 3–6 Years with Cerebral Palsy with Cerebral Visual Impairment. *Children* **2023**, *10*, 1188. <https://doi.org/10.3390/children10071188>

Academic Editors: Marta Pérez-de-Hernández and Sergio Semadeni-Tejada

Received: 12 June 2023

Revised: 4 July 2023

Accepted: 8 July 2023

Published: 9 July 2023



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1. Introduction

Cerebral palsy (CP) is a non-progressive motor function, posture, and movement disability that occurs as a result of prenatal, natal, and postnatal harm to the developing brain [1]. The main expression of the disease is motor dysfunction, but since the existing pathology affects other parts of the brain, motor disorder is often accompanied by epilepsy, sensory processing problems, visual and hearing disorders, oral–motor insufficiency and related feeding problems, orthopedic disorders, mental retardation, behavioral disorders, language–speech disorders, chronic lung problems, and sleep problems [2,3].

It is known that problems in children with CP might differ depending on the location of brain damage. Feeding problems are said to be more important than other problems since they are directly tied to growth and development [4,5]. Feeding problems in children with cerebral palsy vary depending on impaired motor coordination, structural anatomical pathologies, spasticity or hypotonic posture, sensory processing problems, motor involvement severity, whether the swallowing reflex is developed to a normal level or not, trunk control deficiencies, and deficiencies in tongue, lip, jaw, and mouth functions [6].

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Kokuritsu Kokkai Toshokan shozō kagaku gijutsu kankei Ōbun kaigiroku mokuroku Kokuritsu Kokkai Toshokan (Japan),1997 **Physical Education and Recreation for Impaired, Disabled, and Handicapped Individuals--past, Present, and Future** American Alliance for Health, Physical Education, and Recreation,1975 Understanding, Assessing, and Resolving Light-pollution Problems on Sea Turtle Nesting Beaches Blair E. Witherington,1996 FMRI Technical Reports ,1996 **Title Index, ERIC ED Accessions File** ERIC Processing and Reference Facility,1966 **Journal of Visual Impairment & Blindness** ,1991 **Artificial Intelligence and Mobile Robots** David Kortenkamp,Russell Peter Bonasso,Robin Murphy,1998 The mobile robot systems described in this book were selected from among the best available implementations by leading universities and research laboratories These are robots that have left the lab and been tested in natural and unknown environments They perform many different tasks from giving tours to collecting trash Many have distinguished themselves usually with first or second place finishes at various indoor and outdoor mobile robot competitions Each case study is self contained and includes detailed descriptions of important algorithms including pseudo code Thus this volume serves as a recipe book for the design of successful mobile robot applications Common themes include navigation and mapping computer vision and architecture Contributors Ronald Arkin Tucker Balch Michael Brady Don Brutzman Arno Bucken R James Firby Erann Gat Tony Healy Ian Horswill Housheng Hu Sven Koenig Kurt Konolige David Kortenkamp Dave Marco Bob McGhee Robin Murphy Karen Myers Illah Nourbakhsh Peter Prokopowicz Bill Schiller Reid Simmons Michael Swain Sebastian Thrun

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