

## **Adapted furniture on PVC: an emphasis on tertiary prevention on children with neuromotor dysfunction assisted by NEDETA**

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Occupational Therapy students and Scholarship Interns of NEDETA project. The immature brain lesion or malformation can cause a neuromotor disorder, leaving irreversible sequelae on the children's neuropsychomotor system, which can result in variable degree difficulties, such as posturing, make normal movements, motors deficiencies, global development compromising, mental retardation, visual and hearing deficiency, communication and behavior disorders. Still the greatest problem for the professionals involved with such patients is to keep them on normalized postures out of the therapeutic environment, be it in their homes or schools. This research seeks to analyze, bibliographically, how adapted furniture on PVC helps in the prevention of deformities and contractures in children with neuromotor dysfunction assisted by Núcleo de Desenvolvimento de Tecnologia Assistiva e Acessibilidade (NEDETA), improving motor control and alleviating such pathological pattern. The confection of these adapted furniture on PVC (such as chairs for posturing, tables with adjustable height, bathroom furniture, etc) demands from the need of offering low cost adapted furniture for the low wealth users of the project, promoting functionality and the positioning conditions to optimize possible deformities prevention. It were investigated the essential aspects to keep a good posture, trying to normalize the pattern and avoid damage to the physiological structure and/or surgical procedures. This furniture provides proprioceptive "inputs" so the brain can assimilate the adequate posture, acting as orthosis and functional adaptations. It can also prevent scoliosis, kyphosis, lordosis, joint hardening and movement amplitude deficit in the case there wasn't an appropriate positioning during the essential stage of the children's neuropsychomotor development. The Occupational Therapy seeks to adapt one's life according to his needs, thus changing tasks, environment, promoting independency and function, for the greater comfort and better posturing of the individual. Therefore it's observed the importance of adapted furniture on PVC as a help in easing abnormal posturing, what enhances functionality, promotes benefits to the neuromotor dysfunction patients, assists more normalized postures, joint alignment and independency to realize daily activities, essential to an appropriate life quality.

**Keywords:** adapted furniture on PVC, neuromuscular disorder, tertiary prevention.