

ABSTRACT

Cerebral palsy is a disability that affects motor functions due to abnormal brain growth. It results in delayed growth and difficulties in activities such as walking, sitting, grasping, and more.

Generally, cerebral palsy occurs during pregnancy, childbirth, or a child's growth phase. Various factors, including genetics, bleeding, injuries, contribute to cerebral palsy. Individuals with cerebral palsy require therapy to adapt and prevent stiffness in their limbs. Without therapy, children may become rigid and face challenges in daily activities. Therapy for children with cerebral palsy is typically conducted between the ages of 0-7 years when children are in a growth phase, making it easier for them to adapt. Various therapies include physiotherapy, focusing on gross motor skills such as walking, sitting, crawling, etc. Speech therapy addresses communication, speaking, swallowing, and others. Occupational therapy, the last type, is related to Activities of Daily Living (ADL), such as grasping, moving hands, reaching, and more. Each child has unique conditions, so the required therapies vary.

Children with cerebral palsy struggle to use a spoon due to their condition. Hence, a specially designed spoon is needed to enable children with cerebral palsy to eat independently, promoting their self-reliance.

The methodology used in this writing is Quality Function Deployment (QFD) to meet consumer needs and enhance satisfaction. The researcher conducted direct observations and interviews with therapists working with children with cerebral palsy in Bandung.

Quality Function Deployment is a method that considers consumer satisfaction levels, taking into account consumer needs and preferences before a product is launched. This method employs the House of Quality (HoQ). The result of this design is a motoric aid for children with cerebral palsy, which can be used to train the motor skills of children with cerebral palsy.

Keywords: Cerebral palsy, Quality Function Deployment, Product Development, House of Quality