

CHILDREN WITH CEREBRAL PALSY CAN RUN

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Abstract

The purpose of this study is to find out whether children with cerebral palsy can do physical motor activities, such as running. Another goal is to make the cerebral palsy child run. The method used is a data analysis method. Cerebral palsy children initially can not walk with the stimulus or therapy given the child can walk. The results obtained from the analysis of the data are cerebral palsy children can do physical motor activities such as running and other activities. Children with cerebral palsy are children with muscle disorders, tone, movements caused by disorders of the brain. Physical motor is an activity carried out in coordination between spiritual or physical movements and has an effect on the child's developmental stimulus.

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INTRODUCTION

Children with cerebral palsy (Gram et al., 2019) Children with cerebral palsy are categorized according to their physical motor disorders (walking without support, with assistive devices and unable to walk). Physical motor skills are also dependent on or related to small muscle movements and fine motor skills also have a broad scope, fine motor skills are based on gross motor skills. Because it has something to do with health and coordination of children's movements, health or fitness also affects the coordination between motor movements. (Oberer et al., 2018)

Motor skill interventions can improve the child's motor behavior and perhaps the intervention also brings positive things to the child. (Palmer et al., 2019).

(Woodward et al., 2019) brain development networks can determine what therapy will be given to children with cerebral palsy and also depending on the level, therapy which is usually neuromodulation is usually therapy for children with disabilities.

(Aurora, 2014) In addition, there are several studies in the area of adapted physical activities for children aged 3 to 6/7 years with motor disabilities.

The physical education syllabus should be modified for children with disabilities according to their level of disability. If there are children who do not have severe disabilities, these should take part in collective activities (with the whole class) simply avoiding the indication of a medical table for certain types of businesses devoted to each child. All of these play an important role in the process of social integration of children with disabilities.

The main motor disorder that causes difficulties in general coordination is a delay in motor development. (Moțet, 2001)

(Anne et al., 2019) Epidomological and genetic risk factors for cerebral palsy include changes in the inflation response to fetal development, coexisting congenital anomalies.

(Mohamed & Farouk, 2019) levels of zinc, copper, serum for children with cerebral palsy affect cognitive function with cognitive impairment in children, because children with

cerebral palsy are damaged in children's cognitive, motor, and social emotional disorders.

(Diaz et al., 2018) a new therapy based on active motor learning and motor training to improve his motor skills, for example modified restricted movement therapy.

(Summers et al., 2002) Medical treatment that includes injections will reduce the flexibility of muscle movement, about 80% of children with cerebral palsy experience flexibility in their lower body.

Children with cerebral palsy can excel with their intelligence, even though they have disturbances they can certainly show their strengths, there are several famous figures who have cerebral palsy are Tyler born. Tyler born inspires many people with his abilities, he also does activities such as fitness.

Bailey Matthewa is a child with cerebral palsy who can win a competition in the field of sports, namely the English triathlon and won 2 times. (Arnold et al., 2020)

Then there is Drew Bremer, he is a high school and college football player, although with limitations he can do well, it is not easy to be the best.

RESEARCH METHOD

This study uses a qualitative method. Qualitative research is research that intends to understand what the subject is experiencing. For example, holistic action that utilizes various scientific methods. Collecting data using library research collection. (Woodward et al., 2019)

In this study, from 81 subjects studied by researchers, with the implementation of the effectiveness of therapy given to children, children were able to carry out physical motor activities. (Petersen et al., 2019) in Denmark patients with cerebral palsy were diagnosed after one year of the child's birth.

FINDINGS AND DISCUSSION

(Julsen et al., 2018) Cerebral palsy in the immature brain, disorders during pregnancy, or up to 2 years of age. Research mentions disorders that change from time to time and Cerebral Palsy is categorized according to physical motor disorders, can be speech

disorders, cognitive because the cause is a brain disorder that attacks the child's motor.

Cerebral palsy children are children with physical motor disorders, therefore many children with cerebral palsy cannot carry out physical motor activities.

From the many literature studies, it is stated that cerebral palsy is caused by disturbances in the physical motor due to disturbances in the mother's pregnancy.

But children with cerebral palsy can be diagnosed with tests performed by experts. When parents have found symptoms or signs, they must check the child to an expert to be tested whether he is indeed a person with cerebral palsy so that it can be treated appropriately.

Cerebral palsy also has no signs during pregnancy, for example, yellow marks on the baby's body. So researchers must research early for the exact cause of cerebral palsy

In a study it is said that cerebral palsy can be detected during pregnancy and can be seen on ultrasound.

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There is Safina Rovasita who is also a child with cerebral palsy even though at first it was difficult for her to walk but with therapy and strong willpower she was able to walk and motivate many people and also founded a community in Yogyakarta.

From so many mothers with cerebral palsy who do physical motor activities, children with cerebral palsy are not underestimated. From year to year many people do not underestimate children with special needs because they are able to show their talents and abilities in their fields.

(Vallejo-torres et al., 2019) analyzed methods of protecting children can help children to carry out their physical motor activities.

Cerebral palsy is a brain disorder, so most children have muscle disorders due to immature development in the fetus, but in Denmark children with cerebral palsy can be diagnosed after 1 year of age. Cerebral palsy is different from ADHD if Cerebral palsy is in brain and muscle disorders, in the case of ADHD the child has social disorders

Children with cerebral palsy can also experience visual and hearing problems due to immature brain development.

In this case, cerebral palsy can also have difficulty making movements, for example when picking up an object, therefore the stimulus given and the therapy given must be appropriate so that the child can make the right movements when asked to do so.

Cerebral palsy therapy is done by walking slowly, trying to move the muscles so that the child's muscles are not stiff and can be used properly.

Cerebral palsy children can also occur due to infection during kindergarten and can also occur due to infection when the child is still in the mother's womb. (Elbasan & Bezgin, 2018) reflexology is an alternative way to treat cerebral palsy and also parents can find out the study, reflexology given to their children. With that, parents must also support children to do their reflexology because of the many benefits that children can receive, it's just a matter of how to motivate children to recover or get better.

Children with cerebral palsy must also pay attention to several things, namely paying attention to the signs of a baby being born yellow at birth, after knowing that the child can be incubated with blue light carried out by medical personnel. Children with cerebral palsy should also be kept away from people with meningitis as much as possible because meningitis is also an infection of the lining of the brain that can be transmitted to children with cerebral palsy.

With several children doing therapy, all children can move their physical motors, especially legs, children practice walking until children can run, running children are not the same as us normal but there are things that distinguish.

Safina rovasita who she is also a successful cerebral palsy sufferer. He was finally able to get up and show that a child with cerebral palsy can be successful.

Therapy for children with special needs, especially cerebral palsy, is very good, because direct therapy leads

CONCLUSION

Children with cerebral palsy can carry out physical motor activities, with the pi movement given to the child, the muscles of the child are trained which allows the child to run and do other motoric physical activities. Children with cerebral palsy must have a strong motivation within themselves so that when undergoing therapy the child does not feel burdened.

Cerebral palsy can't be cured, it can only be reduced and it can also move its physical motor even if there are tools to move it.

Cerebral palsy must also be handled by experts so that other aspects of child development can also be stimulated properly.

In other words, children with cerebral palsy must also receive education or other aspects of development, not necessarily children who cannot run cannot develop other aspects, and can also develop artistic or other aspects that they are good at.

REFERENCE

- Anne, J., Pt, Z., Armstrong, M., Whisler, S., & Williamson, S. (2019). CASE REPORT T AG ED H1 V ISCERAL AND NEURAL M ANIPULATION IN C HILDREN WITH C EREBRAL P ALSY AND C HRONIC C ONSTIPATION : F IVE C ASE R EPORTS AG ED N T E. *EXPLORE*, 15(1), 47–54. <https://doi.org/10.1016/j.explore.2018.09.001>
- Arnold, A. J., Haworth, J. L., Moran, V. O., Steinbuch, N., & Kokkoni, E. (2020). Exploring the Unmet Need for Technology to Promote Motor Ability in Children Under 5 Years of Age: A Systematic Review. *Archives of Rehabilitation Research and Clinical Translation*, 100051. <https://doi.org/10.1016/j.arrct.2020.100051>
- Aurora, U. (2014). Study for Determining Laterality in Children with Motor Disabilities in Adapted Physical Activities. *Procedia - Social and Behavioral Sciences*, 117, 646–652. <https://doi.org/10.1016/j.sbspro.2014.02.276>
- Diaz, R., Almeida, R., Christin, A., & Forssberg, H. (2018). EBioMedicine Genetic Variation in the Dopamine System In fl uences Intervention Outcome in Children with Cerebral Palsy. *EBioMedicine*, 28, 162–167. <https://doi.org/10.1016/j.ebiom.2017.12.028>
- Elbasan, B., & Bezgin, S. (2018). The effects of reflexology on constipation and motor functions in children with cerebral palsy. *Pediatrics and Neonatology*, 59(1), 42–47. <https://doi.org/10.1016/j.pedneo.2017.01.005>
- Gram, T., Forthun, I., Lange, T., Fredsted, S., Andersen, A. N., Uldall, P., & Strandberg-larsen, K. (2019). Original article Cerebral palsy among children of immigrants in Denmark and the role of socioeconomic status. *European Journal of Paediatric Neurology*, 23(3), 507–516. <https://doi.org/10.1016/j.ejpn.2019.01.007>
- Julsen, S., Vik, T., Lydersen, S., Johanne, I., & Andersen, G. L. (2018). Original article Decreasing prevalence and severity of cerebral palsy in Norway among children born 1999 to 2010 concomitant with improvements in perinatal health. *European Journal of Paediatric Neurology*, 22(5), 814–821. <https://doi.org/10.1016/j.ejpn.2018.05.001>
- Mohamed, G., & Farouk, M. (2019). *Assessment of some micronutrients serum levels in children with severe acute malnutrition with and without cerebral palsy- A follow up case control study*. 23, 34–43. <https://doi.org/10.1016/j.yclnex.2018.10.008>
- Oberer, N., Gashaj, V., & Roebbers, C. M. (2018). Human Movement Science Executive functions , visual-motor coordination , physical fi tness and academic achievement : Longitudinal relations in typically developing children. *Human Movement Science*, 58(January), 69–79. <https://doi.org/10.1016/j.humov.2018.01.003>
- Palmer, K. K., Chinn, K. M., & Robinson, L. E. (2019). The effect of the CHAMP intervention on fundamental motor skills and outdoor physical activity in preschoolers. *Journal of Sport and Health Science*, 8(2), 98–105.

<https://doi.org/10.1016/j.jshs.2018.12.003>

- Petersen, T. G., Forthun, I., Lange, T., Villadsen, S. F., Nybo Andersen, A. M., Uldall, P., & Strandberg-Larsen, K. (2019). Cerebral palsy among children of immigrants in Denmark and the role of socioeconomic status. *European Journal of Paediatric Neurology*, 23(3), 507–516. <https://doi.org/10.1016/j.ejpn.2019.01.007>
- Summers, J., Coker, B., Eddy, S., Elstad, M., Bunce, C., Bourmpaki, E., Pennington, M., Aquilina, K., Cawker, S., Edwards, R., Goodden, J., Hawes, S., Mccune, K., Pettorini, B., Smith, J., Sneade, C., & Vloeberghs, M. (2002). Articles Selective dorsal rhizotomy in ambulant children with cerebral palsy: an observational cohort study. *The Lancet Child and Adolescent Health*, 3(7), 455–462. [https://doi.org/10.1016/S2352-4642\(19\)30119-1](https://doi.org/10.1016/S2352-4642(19)30119-1)
- Vallejo-torres, L., Rivero-santana, A., Martin-saborido, C., Epstein, D., Perestelo-pérez, L., Castellano-fuentes, C. L., Escobar-martínez, A., & Serrano-aguilar, P. (2019). Cost-effectiveness analysis of a surveillance program to prevent hip dislocation in children with cerebral palsy. *Gaceta Sanitaria*, xx. <https://doi.org/10.1016/j.gaceta.2019.05.005>
- Woodward, K. E., Carlson, H. L., Kuczynski, A., Saunders, J., Hodge, J., & Kirton, A. (2019). *NeuroImage: Clinical Sensory-motor network functional connectivity in children with unilateral cerebral palsy secondary to perinatal stroke*. 21(January). <https://doi.org/10.1016/j.nicl.2019.101670>