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Increase Ability Motorcycle Fine Through Kinetic Sand Play Activities

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ABSTRACT

This research aims to enhance the fine motor skills of children through the use of playing with sand as a learning medium. The development of fine motor skills plays a crucial role in the enhancement of hand skills, such as gripping, squeezing, picking up, folding, sticking, and cutting. This study employs a qualitative research method with a case study approach. The research subject is a 7-year-old child diagnosed with cerebral palsy. The results of the research show that applying kinetic sand media to children who use the activities of squeezing, grasping, pressing and picking up sand without realizing it has an effect on fine motor skills and coordination between hands and eyes. This can be seen from the ability of children who previously could not raise their hands and also could not pick up sand using their own hands, now children can raise their hands and can pick up sand themselves.

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1. INTRODUCTION

Fine motor development is the ability to use hand muscles which includes hand movements, especially the fingers, such as grasping, squeezing, picking up, folding, sticking, and cutting. Teachers can try to improve children's fine motor skills with cutting, rolling, squeezing, and folding activities. However, this activity is less interesting for children so children quickly get bored and the activity improves motor skills child No develops optimally. By Because That, Wrong One Activities that can be done are interesting and can improve children's fine motor skills by playing, one of which is playing with sand. Mayesty (in Sujiono, 2009:134) opinion that for children, playing is an activity they do throughout the day because for children playing is life and life is a game.

Physically playing sand training children's fine motor skills, especially in the muscles of the hands and fingers, when children play with sand by pouring, sifting, and digging the soil. In this research, playing with sand is used as a learning medium to improve children's fine motor skills.

Currently, many studies discuss fine motoric skills, including Playing with Magic Sand to develop children's fine motor skills (Dewi, D. K., Iswantiningtyas, V & Nugroho, I. H (2021). Efforts To Improve The Fine Motor Ability Of Early Children Through Sand Play Activities (Ni Made Sulastrri (2020). Development of Kinetic Sand Play Activities to Improve Fine Motor Skills in Children Aged 5-6 Years at Kindergarten Aisyiyah Bustanul Athfal 6 Mataram 2019 Academic Year (Ajeng Tungga Dewi (2020). The Effect of the Use of Kinetic Sand as a Stimulation Media for Fine Motor Development in Preschool Children at Ra Al-Masithoh Karangploso (Imas Fideli Pragistha (2022). Mixed Reality Sandbox Game Development for Improving Disability Children Fine Motor Skill (Lukman Hakim (2023).

2. METHODS

This study used qualitative research methods. The main purpose of studying qualitative is For understand (to understand) social phenomena or phenomena by focusing more on a complete picture of the phenomenon being studied rather than breaking it down into interrelated variables.

This research was conducted at the PKh Intervention Lab FIP UPI. The subject study is one child aged 7 years with cerebral palsy quadriplegia. Media provided to a child in study This is kinetic sand media.



Figure 1. Research procedure

3. RESULTS AND DISCUSSION

3.1 Motor Fine

One aspect that children need to have and continue to develop is the aspect of fine motor development, this is a need for their future. Fine motor skills are the control of small muscles in coordinated movements. Motor skills represent children's activities. Some activities require the development of motor child-like in carrying out daily activities which utilize the fingers and coordinate the eyes with the child's hand movements including the wrist (Meriyati, et al., 2020). As stated by Wahyuningtyas, et al., (2020), children's daily activities will be good, because most of these activities use finger movements. This activity definitely involves hand-muscle coordination with eye coordination. So flexibility motion members' fingers and wrists also affect children's fine motor skills. Al-Maqassary (in Nurjani et al., 2019) suggests several factors That can influence the development of motor skills: 1) growth of the nervous system, 2) physical ability to allow movement, 3) It is the child's will that motivates him To move, 4) supporting areas, 5) psychological aspects of child, 5) age, 6) type of sex, 7) genetic, 8) abnormality chromosome.

Children's fine motor development often experiences problems because they are not stimulated according to their developmental stage (Muarifah & Nurkhasanah, 2019). Motor development can be used as a benchmark to determine a child's growth and development. Every child's development experiences differences, some are fast, some are slow. In this case, exercises are needed to train the child's physical motor skills. Most parents do not pay much attention to their children's motoric development, because they feel that their children are fine and healthy, even though paying attention to their growth and development is very important.

3.2 Sand Kinetic

Sand is a component that comes from nature we often encounter them in the surrounding environment, roads, yards or beaches. According to the Sands Alive Interesting Series (Khamaliyah et al., 2019) kinetic sand also gives it to children when playing, namely, stimulating the sensory sense of touch: touching and squeezing kinetic sand to feel its texture. Train fine motor skills: Making various shapes with your hands is also beneficial for fine motor skills through inserting sand into in print and then removing the mold. Practice drawing and pre-writing: before using a pencil, you can use your finger or another tool to write on the sand.

According to Jatmika (Nuryulianti & Ernawati, 2019) that sand kinetic has there are many benefits in terms of building and training fine motor skills child, and building emotional and social. Playing with sand is a type of object that children like, through sand children find their satisfaction. Children mix, stir, stack, pile, dig, fill, pour, sift and shape using sand. Sand media is a medium that hone psychomotor, cognitive, sensory, social-emotional, language at the moment the same (Montolalu in guidance, 2019).

Playing with kinetic sand is very fun for children to play. Playing with synthetic sand can improve brain development, sensory capacity, cognitive abilities, creativity and imagination, as well as the enjoyment that children get from it and the child's ability to recognize shapes and colors. Selain itu, secara tidak sengaja dapat melatih keterampilan motorik halus dan koordinasi tangan-mata anak (Bahari & Hamidah, 2022).

On meeting First, researcher Inviting children to play with pom-poms to find out whether pom-poms can affect fine motoric development, but it turned out that the children were not interested in pom-poms so at the next meeting, researchers provided another learning medium, namely kinetic sand, to train children's fine motor skills.

Based on research that has been conducted, children are very interested in learning media and kinetic. Researchers train children's fine motor skills by inviting them child For play with sand kinetic. The application of kinetic sand media to children who apply it in the activities of squeezing, grasping, pressing, and picking up sand without realizing it affects their abilities of motor And coordination abilities between hands and eyes. This can be seen from the ability of children who previously could not raise their hands and also could not pick up sand using their own hands, now children can raise their hands and can pick up sand themselves.

4. CONCLUSION

Based on the results of the research that has been carried out, it can be concluded that kinetic sand learning media can influence children's fine motor development. This can be seen from the increase in children's ability to squeeze, grasp, press, and pick up sand. Improved motor skills fine child can seen from children's abilities that they previously could not lift their hands And were Also unable to pick up sand using their own hands, now the child can raise his hands and can pick up sand himself. Kinetic sand learning media can be an alternative that can be used to improve children's fine motor development.

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6. AUTHORS' NOTE

The authors declare that there is no conflict of interest regarding the publication of this article. Authors confirmed that the paper was free of plagiarism.

7. REFERENCES

- Apipah, F. T. (2022). Pengembangan motorik halus anak usia dini melalui permainan pasir kinetik di kelompok bermain al-ittihad tasikmalaya. *Edukasi: Jurnal Ilmiah Pendidikan Anak Usia Dini*, 10(2).
- Bahari, J. I., & Hamidah, U. N. (2022). Optimalisasi kemampuan motorik halus siswa melalui media kinetic sand di tk bahrul ulum bangorejo banyuwangi. *Jurnal Tarbiyatuna: Kajian Pendidikan Islam*, 6(1), 132-145.
- Dewi, A. T. (2020, September). Pengembangan kegiatan bermain pasir kinetik untuk meningkatkan kemampuan motorik halus pada anak usia 5-6 tahun di tk aisyiyah bustanul athfal 6 mataram tahun ajaran 2019. *In Prosiding Seminar Nasional Pendidikan Inklusif* (Vol. 1, No. 1, pp. 62-68).

- Dewi, D. K., Iswantiningtyas, V., & Nugroho, I. H. (2021, December). Bermain Pasir Ajaib Untuk Mengembangkan Motorik Halus Anak. In *Prosiding SEMDIKJAR (Seminar Nasional Pendidikan dan Pembelajaran)* (Vol. 4, pp. 394-402).
- Hidayah, A. (2019). Meningkatkan kemampuan menulis awal melalui media pasir pada siswa kelompok "a" di taman kanak-kanak al-falahiyah lamongan. *Universitas Islam Negeri Sunan Ampel Surabaya*.
- Kamus Besar Bahasa Indonesia (On-line), <https://kbbi.web.id/pasir.html>. diakses (24 Februari 2019).
- Lestari, N. W. (2020). Stimulasi kemampuan motorik halus melalui kegiatan bermain pasir kinetik pada anak usia 3-4 tahun (*Doctoral dissertation Universitas Pendidikan Indonesia*).
- Mardiati, M., & Hartati, S. (2020). Pengaruh penggunaan pasir kinetik terhadap perkembangan motorik halus anak di taman kanak-kanak. *Jurnal Pendidikan Tambusai*, 4 (1), 514-519.
- Muarifah, A., & Nurkhasanah, N. (2019). Identifikasi keterampilan motorik halus anak. *Journal of Early Childhood Care and Education*, 2(1), 14.
- Murdiyanto, E. (2020). Penelitian Kualitatif (Teori dan Aplikasi disertai contoh proposal).
- Nurfahira, I., Paida, A., & Rahmat, M. Y. (2023). Pengaruh penggunaan media pasir kinetik terhadap perkembangan motorik halus anak di tk bustanul athfal aisyiyah al badar cabang salaka. *Jurnal Pendidikan dan Konseling (JPDK)*, 5(2), 781-788.
- Pragistha, I. F., Mansur, H., & Triningsih, R. W. (2022). The effect of the use of kinetic sand as a stimulation media for fine motor development in preschool children at ra al-masithoh karangploso. *Journal of Local Therapy*, 1(1), 18-23.
- Ritonga, S. A., Ritonga, S., & Atiya, N. (2022). Pengaruh bermain pasir kinetik terhadap kemampuan motorik halus anak usia dini di tk negeri satap desa sibargot. *Tarbiyah bil Qalam: Jurnal Pendidikan Agama dan Sains*, 6(2).
- Sulastri, N. M. (2020). Upaya meningkatkan kemampuan motorik halus anak usia dini melalui kegiatan bermain pasir. *Transformasi: Jurnal Penelitian dan Pengembangan Pendidikan Non Formal Informal*, 6(1).