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## Fine Motor Development for Children Aged 4-6 Years by Using Woven Products in Kampung Purun

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### ABSTRACT

One of the aspects of child development is fine motor skills. Children's fine motor skills are essential to be stimulated from an early age. Fine motor skills can be trained by using learning media so that learning becomes more fun. This research aims to describe the children's fine motor development aged 4-6 years using woven media in Kampung Purun. This research uses a qualitative approach. Data collecting by interviews, observation, and documentation. Data analysis through the reduction stage, presentation, and conclusion and it's verified. The research results explain that purun woven product media coloring activities can improve children's fine motor skills aged 4-6 years. Implications for children's fine motor development are: 1) train in writing preparation, 2) stimulate the development of social, emotional, and artistic aspects, 3) train children's creativity so that children become creative and dare to try. 4) train children to think logically in relation to the ability to count. This research makes it easier for PAUD teachers to use woven products as learning media for early childhood in helping develop their fine motor skills product.

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## 1. INTRODUCTION

Education is a learning process in achieving maturity, maturity in behavior, and everyday life; also, education can encourage someone to be a good citizen and be aware of the procedures in social life. Therefore, we know that education is a process in building culture and an effort to sustain tradition in society. Therefore, education is a cultural process under the control of a group of people.

Education is carried out from an early age until grown to be an adult. The purpose and objectives of education are basically to develop human potential. This is inseparable from education from early childhood, specifically by giving a fun learning and using a fun method, playing method (Amelia et al., 2020; Mutiani et al., 2021; Pratiwi, 2017). Based on Permendikbud years 2014, chapter 1 that Early Childhood Education, later shortened to early childhood education programs, is a way to guide children since born until aged six years old. This is done by providing educational stimuli to assist in physical and spiritual growth and development with the purpose that children are ready to go to further education. When the education is starting, it's called early or lower limit (Ingersoll and Strong, 2011). Early childhood education is one of the institutions in education that's had helping the government prepare generations from an early age, which provides the basis for the development of behavior, knowledge, attitudes, skills, and the creativity that students need (Astini et al., 2017).

Early childhood is between 0 – 6 years old. Early childhood has unique characters in physics, morals, social, behavior, nature, and etcetera. At this period, essential personality development and will determine an experience that is embedded into the future. Because of that, early-aged children need to be directed to grow and develop their potential (Rohmah, 2018; Zaini and Dewi, 2017).

Early childhood development consists of several aspects: cognitive, language, physical motor, social emotional, moral religion, and art aspects (Wandi and Mayar, 2019). All of the aspects can be developed within the classroom and out-of-classroom learning. Out-of-classroom learning can optimize children's growth and development, which is related to psychomotor because psychomotor is the basis of intelligence and social emotions; motor movement is essential to be the main focus in development. Motor movement is behavior in movements made by humans on their bodies (Hasanah, 2016). Teachers can use some learning media to develop and stimulate motor skills in early childhood; one of them is using handicrafts products learning media.

South Borneo local handicraft is purun woven. Purun is a wild plant that grows in swamps (Asikin dan Thamrin, 2012). Based on observations in April 2022, at Kampung Purun located in Banjarbaru City, South Borneo, there are various forms of handicraft products with various color variants that can be used as learning media with using local wisdom of Banjarese (Lestari et al., 2020; Mutiani, 2017).

Dewi's observations about "Early Childhood Learning Media" explain that learning media can stimulate all aspects of early childhood because early childhood learning is done through play and fun (Zaini dan Dewi, 2017). Moreover, the learning media used include real, audio, visual, environmental, and audiovisual media so that learning activities in early childhood run effectively. Research by Darmawati shows that there is an increase in children's fine motor skills in coloring activities using banana stem media (Darmawati, 2020). Another research by Mariati and Puteri, (2016) showed an increase in children's fine motor skills using crayons and cotton buds. While in this research in developing children's fine motor skills, the media used was purun woven products which were colored using watercolors and brushes. Purun woven

products are used because they are easy to find in South Kalimantan so that environmental-based learning can be applied. Beside with coloring activities, children can also see patterns and shapes in purun woven products. The importance of this research is to develop learning methods used in improving children's fine motor development by using media that are easy to find in the surrounding area.

## 2. METHODS

This observation uses a qualitative approach with a descriptive narrative in April 2022. First, qualitative research was chosen to describe the purun woven product used as learning media to fine motor development for early childhood and then constructed in a more understandable and meaningful theme (Mekarisce, 2020). The research subjects are PAUD Kartini Martapura students aged 4-6 years. The data source comes from a weaving craftsman. Data collection techniques through direct observation in April 2022, interviews with craftsmen in Kampung Purun, PAUD Teacher, and documentation from other sources relevant to the observations.

Analysis of the data used in these observations is the interactive model of Miles, and Huberman (1993), which consists of 3 steps of analysis, including data reduction, data presentation, and data verification (Nugrahani, 2015). Data reduction by copying interview results from the recorded form into written form to then be reduced according to the required data about the purun woven product. The next step is the data presentation stage is carried out with narrative texts and descriptions of learning activities using purun woven product media. The next step is to make conclusions (verification) to answer problems regarding fine motor development of children aged 4-6 years using purun woven product media. The validity test of the data is done by triangulation of sources by asking the same thing to several different informants, and triangulation method is done by using interview, observation, and documentation techniques about aged 4-6 years children fine motor development and purun woven product which used as learning media.

## 3. RESULTS AND DISCUSSION

Kampung Purun is located in Palam Village, Cempaka district, Banjarbaru city, exactly on RT 05 dan RT 06. Kampung Purun was created in 2016. They have named Kampung Purun because most citizens are purun craftsmen who make handicrafts with purun primary material. Purun grows wild in the area of Kampung Purun, which is swampland. The purun products produced in Kampung Purun are varied, like mats, baskets, bags, drinking water containers, placemats, fans, etc. Purun woven products can be used as learning media. According to Khadijah (2016), media is an intermediary used to send messages from the sender to the message's recipient to stimulate the feelings, attention, thoughts, and interests of early childhood. Considering the development of early childhood is in the period of concrete thinking, so the role of media in learning plays an important role. Because of that, the principle in early childhood learning must be based on reality which is expected for early childhood to learn something for real. So early childhood learning must use something that allows children to learn concretely. This principle shows that we need media to deliver educational messages for early childhood.

The handicraft products of Kampung Purun can be a learning medium for early childhood in creativity. According Utomo (2021), various kinds of learning media, including printed media, actual objects, used goods, and models. In this case, teachers can use purun woven

products as learning media with the real thing. Learning media can stimulate early childhood motor development. In children aged 4-6 years, children's fine motor movements develop rapidly. For example, children's motor skills can be improved by putting or holding an object using their fingers (Widi, 2015).

Purun woven products can be used for coloring learning media where children can hold the media directly. Children can use watercolor using a brush according to the woven pattern on the purun woven product. A fun situation for children can stimulate increasing creativity in children in coloring activities. The fun situation in the coloring learning can be created by praising the children and giving more attention, and so giving encouragement and motivation, besides adding a variety of media so that children will be more excited to complete the work made (Larasati et al., 2016).

Funny learning can provide a good stimulus to brain function, improving children's fine motor (Indraswari, 2012). The development of fine motor skills characterizes increased child development. The purpose of fine motor development in children aged 4-6 years include:

- a. Children can develop fine motor skills related to movement skills in both hands
- b. Children can move body parts related to finger movements, such as writing or drawing.
- c. Children can coordinate between the senses of the eye and hand activities.
- d. Children can control emotions when doing fine motor activities.

Children's fine motor development must be sharpened so that their abilities will continuously develop. To achieve the purpose of fine motor development, indicators are needed as a reference in its development. The fine motor indicators for children aged 4-6 years based on Permendikbud RI NOMOR 137 TAHUN 2014 are See **Table 1**:

**Table 1. Level of Achievement of Children's Fine Motor Development**

Level of Achievement of Children's Fine Motor Development	
4 - 5 years old	5-6 years old
1. Create vertical line, horizontal line, curved left/right, left/correct tilt, and circles	1. Draw according to what is in their mind
2. Tracing a shape	2. Following a pattern or shape
3. Coordinating between eyes and hands to be able to perform complex movements	3. Exploring various media and various activities
4. Doing a manipulative movement using various media to produce a form	4. Using their writing utensils or cutlery correctly
5. Express and explore themselves by creating works of art using various media	5. Cutting a media with following the pattern.
6. Controlling hand movements using smooth muscles with light movements such as pinching, twisting, squeezing, stroking, poking, clenching, twisting.	6. Sticking an image correctly
	7. Express themselves by drawing in detail

Source: Permendikbud RI Number 137 Year 2014 about national standard Early Childhood Education

Based on the indicators of fine motor development of children aged 4-6 years above, there are several indicators that can be achieved with learning activities using purun woven product media so that they have implications for children's fine motor development, among them:

- 1) Coordinating between eyes and hands to be able to perform complex movements  
 In the activity of coloring purun woven products, children use their hands to apply watercolor colors. The fingers are used to hold the brush as a tool for coloring woven

products. The hands will coordinate with the eyes to be able to color so that the color smear becomes neat and looks appropriate.

According Puskur, Balitbang and Depdiknas, fine motor development in children aged 4-5 years namely children have the ability to move their limbs, especially in eye and hand coordination, this is done in preparation to start writing (Fauziyah, 2021). The purpose of children's motor development is not only on motor development, but has a comprehensive goal. The purpose of fine motor development is to stimulate the development of other aspects such as social, emotional, and artistic. From coloring activities of purun woven products, children perform hand and eye coordination which will have implications for children's development, namely in writing exercises. Besides that, other aspects such as social, emotional, art will also develop. Children not only use body parts but also feelings related to art that are poured in color and children's concern for color harmony in colored media. This is related to the social aspects of children.

## 2) Express and explore themselves by creating works of art using various media

Purun woven products are used as a creative media for children to coloring according to children's creativity. Children are free to choose the color they like with taste in mixing and matching color art on the woven. Children can express according to their imagination or something they have seen. Children can also make paintings on purun woven products.

The activity of coloring woven products gives children pleasure because the children's fingers are in direct contact with the purun media. Through these objects, children can explore and be creative by combining their previous knowledge through the media used by children (Evivani, 2020). This activity can train children's creativity so that children become creative and dare to try.

## 3) Follow a pattern and shape

Children can color by following the purun woven pattern. The woven on these handicraft products is very diverse so that when colored it will produce a variety of color patterns. Children can see how the variations of each pattern and shape that exist in each product.

The ability that children have in recognizing and following patterns is included in the stage of development in the scope of logical thinking. The concept of pattern will be related to children's numeracy skills, including algebra and geometry. This is in accordance with research conducted by Fyfe, et. al (2014) which explain that the concept of patterns is important for early knowledge of mathematics in children. The ability to recognize this pattern can help children in solving problems related to the ability to count.

The results of the study explain that purun woven products can be used as learning media for children aged 4-6 years. Learning activities carried out using purun woven media can improve children's fine motor skills, namely 1) training in writing preparation, 2) stimulating the development of social, emotional, and artistic aspects, 3) training children's creativity so that children become creative and dare to try. 4) train children to think logically in relation to the ability to count. Children's fine motor skills will develop if they are trained as early as possible according to the indicators of the child's age range. This research makes it easier for early childhood education teachers to use woven products as learning media for early childhood. This is because this research has provided an overview of the activities carried out and the goal that can be achieved in learning.

#### 4. CONCLUSION

The results of the study explain that Purun woven from Kampung Purun can be used as a media for early childhood learning. Learning using purun woven media purpose to improve children's fine motor skills. Activities that can be done to improve children's fine motor skills are coloring purun woven products. Besides being able to improve children's motor development, children can also learn directly with fun which can improve the development of brain function.

Fine motor skills of children aged 4-6 years need to be constantly trained in order to achieve development that is in accordance with the indicators. Implications for children's fine motor development are: 1) train in writing preparation, 2) stimulate the development of social, emotional, and artistic aspects, 3) train children's creativity so that children become creative and dare to try. 4) train children to think logically in relation to the ability to count. Children's fine motor skills will develop if they are trained as early as possible according to the indicators of the child's age range. This research makes it easier for early childhood education teachers to use woven products as learning media for early childhood. This is because this research has provided an overview of the activities carried out and the goal that can be achieved in learning.

#### 5. 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.

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