

## **CORELATION BETWEEN FINE MOTOR DEVELOPMENT IN CHILDREN TO THEIR SOCIAL COGNITIVE ABILITIES**

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**Abstract:** The age of children is one of the crucial periods in the development of a person's life. Development at this time also requires guidance and supervision from the parents / caregivers of the child. Children will also be faced with challenges to be able to socialize and become part of a social group. The social abilities of a child also require adaptation to the social environment they live in, each child must have different social skills and different adaptability. At this time, there are still many parents who think motor development is only able to provide development to the cognitive aspects of children, in fact this is not entirely wrong. It is a good initiative too, if the optimization of children's motor skills is directed at the development of other abilities. Therefore, the existence of proper guidance and supervision will be able to interpret children to manifest themselves completely in a social environment.

**Keywords:** Children's age, Motoric development, Social skills

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## **INTRODUCTION**

The development of a child is a very complex thing to understand, there are many aspects that need to be examined one by one in order to understand it comprehensively and in detail. Every child must have different stages and rhythm of development. Child development also have many aspect like cognitive, moral, physhically, and etc (Aghnaita, 2014) Some have fast physical development, fast cognitive abilities, and others. We cannot equalize each development process in children because every child has a different development pattern. This is most likely due to heredity, or the child's genetics. Some things that are passed on by parents to children are structural characteristics, not behavior that is acquired as a result of learning or

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experiences such as talent traits, heredity, intelligence and also personality. In early age, growth of the brain child and nervous system from them is one of the most important aspects in individual development, growth brain and head much faster in comparison other body parts (Tri Murti,2018). Heredity factors have a major influence on the intelligence development of a child compared to other factors, namely environmental factors and general factors. Of the many aspects in the development that occurs in children, surely each aspect has a role and influence on the child. For example, the development of immunity that occurs in children has an influence on the patterns of physical development of children. Good development in children is certainly also supported because every aspect of it is going well.

### **Social Skill on Children**

According to Plato, humans are zoon politicon, where they are creatures that need the presence of other people to survive. Of course we can reflect on this in today's life, where we definitely need the role and presence of other people in our daily lives. Either physically or affectively, humans will seek fulfillment of their social needs with other people. Children, where they are individuals who are at an early stage of need also need a social environment, this is very important because a child needs guidance from parents / caregivers, interaction with peers in order to hone their social skills. It will open his mind and understanding about others, he gets new perspectives in his meetings with other people and this will continue to happen as long as he continues to socialize with other people. When children interact with peer groups, preschoolers share in two ways.

The first is in the form of social participation, which is the involvement of children in playing activities together or trying to participate in ongoing group activities of friends. The second is the protection of interactive space. Namely the tendency of children involved in an episode of ongoing play activities to resist attempts or interference from other children who are participating. Children's social abilities are very important for children, because this ability has a very big role in determining their future. Children will practice how to accept roles in a social environment, they will also learn about how values and group rules will work in a social environment where they will get their own role, and be able to put themselves well or you could say a child must be able to adapt. . Children's social development is obtained from maturity and learning opportunities from various environmental

responses to children. Optimal social development is obtained from healthy social responses and opportunities given to children to develop a positive self-concept (Femni N, 2015). If a child is able to actualize himself well in the future, it is likely that he will experience good social development in his childhood, because it is the results of learning and one's past experiences that shape him in the present. Therefore, social development in children is important to be guided.

## **METHOD**

This research is using method of systematic literature review applied to articles on Early Childhood Physical Motor Development (Rohyana F. Rabihatun A, 2018). This systematic literature review contains six consecutive stages as described below .

### **Stage I: Identification of Articles**

Reasearcher look forward some article on google scholar. Finding some general topic that discuss about child age development, motor development, cognitive aspect on cildren.

### **Stage II: Secondary Search**

At this stage, there are additional information that find to support the identification article, finding some related theory and research that used to make a corellation between these two variable.

### **Stage III, Filtering Articles Based on Specific Inclusion Criteria**

At this stage, the article that already collected, reviewed one by one by reading the abstract and sections of the articles that relevant to the inclusion criteria. The articles contain discussion about children age development in general.

### **Stage IV: Gathering Additional Information Additional Information**

After filtering the article and reviewing it, researcher start to gathering the information and integrated it into one concept that create the main theory that going to be the basic of article.

### **Stage V: Detailed Examination**

The crytical data that going to be develop as main disscusion ont this article, need to be analyzed on detail, the contain need to be related one each other, in order to make information and theory is correct.

## FINDINGS AND DISCUSSIONS

**Table 1**  
**Summary of All Studies That Meet The Inclusion Criteria**

<b>Author, Year</b>	<b>Sample (n)</b>	<b>Variable</b>	<b>Method, Instruments</b>	<b>Summary of Result</b>
Dewi, M. P., Neviyarni, S., & Irdamurni, I. (2020)	Elementary school children	Language emotion, Social development	Library Research	Language, emotional and social development children are generally influenced by children's environment is good home environment, school, and peers. able child Anak interact quickly will get language, emotional, and social development hurry too, because there will be a lot of children spend time interacting with other people.
Pudyaningtyas, A. R., & Parwatiningsih, S. A. (2019)	3-6 years old kindergarten on Yogyakarta and surakarta.	Motor competence, and cognitive	Motor competence variable measurement	From the results and discussion, it can be concluded that fine and gross motor competence cannot be separated from other aspects of child development such as cognitive, affective and child health aspects. Cognitive aspects related to increasing problem solving skills by choosing prosocial attitudes in situations encountered. The affective aspect is related to the child's high sense of sympathy when dealing with other people, especially peers. The child's health is related to reduced complaining and normal physical activity. Thus, this study shows the results that motor competence is strongly related so

					that it is able to predict aspects of cognitive (problem solving), affective (sympathy) and normal children's health.
Sintia, N., Kuswanto, W., Meriyati, (2021).	N., C. & M.	Kindergart en kid on as-sallam	Social skill development	Fenomenologi s naturalistik	Social skills early childhood in Kindergarten As-sallam 1 Sukarame Bandar Lampung includes: includes abilities show activity in the game, empathize with friends, behave sportsmanship in the game, able lead in the group, see the advantages of friends are not a constraint, able to make decisions fast, confident in doing games, able to work together in groups, can communicate kind to friends, always try and never give up, it's easy hang out with friends in surroundings and able to understand friends.

After finding some theory and discussion on these article, can be into several sub-discussions.

### **Role of Physical Motor Development on Children**

Motoric physical development is the development of body movement skills or body parts that are intentional, automatic, fast, and accurate. Simple motor development of a child can be seen from the moment he is just born, where the baby tries to open his hand, it can be said in motor development. The result of the coordination of hundreds of complicated muscles and nerves in the body is what supports the development of a person's motor. Usually this motor development is often trained or honed by hand. The hand has a lot of muscles and also a nervous system that is directly connected to the brain. The result between the coordination of the brain, nerves, and muscles produces motion in the palms that receive information and commands from the brain. Because of the way it works, which involves a complex system between the

brain, muscles and nerves that makes children's motor skills play a significant role in children's cognitive development.

We know that there are nerves that connect the brain to every member of our body. We can understand that the more often we train a certain ability, the more reliable we will be in doing a job with this ability. This also applies to the physical motor development of children, even though it is still at an early stage, this is precisely what is important because at this time new development begins and the frequency of its development can run rapidly. It is highly likely that if we develop a child's motor skills, his cognitive development will also be boosted. However, it should be remembered that each child has their own developmental pattern and rhythm, so that the results of one child's motor skills training cannot be compared with other children, many factors influence it and it is not good if we perceive a child to have slow motor development. Early childhood development is holistic, that is, it can develop optimally if the body is healthy, has adequate nutrition and is directed properly and correctly. Therefore, the existence of supporting factors as mentioned is expected to be able to be applied to support child development.

### **How Motor Development on Children Can Affect Their Social Skill.**

There are several stages of cognitive development in children which are classified according to their age stages. According to Santrock (2007) development is a process that occurs cumulatively. This means that previous developments will be the basis for development at the next stage. Research has shown that physical activity which is a basic need of children will determine their physical and motor development, and is also associated with emotional, socio-psychological, and cognitive development (Muller et al., 2013; Bellows et al., 2017; Wehrens et al., et al., 2017). Supported by research by Cameron et al. (Oberer, Gashaj, and Roebers, 2017) show that there is a positive relationship between gross motor skills and the academic abilities of three to four year olds, such as math, reading, and word comprehension. Utsch et al. (2016) show that athletic development is considered an important factor in a child's overall health. Another study by Loprinzi, Davis, and Chieh Fu (2015) showed that developing sufficient physical activity will allow children to enjoy physical activity and provide good performance, which is related to their long-term physical ability.

According to Elizabeth B. Hurlock, children's ability to react emotionally has been there since the newborn. The first symptom of this

emotional behavior is a general arousal. As children get older, their emotional reactions are less diffuse, less arbitrary, more distinguishable, and more lenient because they have to learn how other people react to emotional outbursts. or more simply, a child is able to specify again how he behaves towards others because his cognitive abilities have developed and learn how he should respond to an action. Emotional development is closely related to the social development of children. If children have been able to relate and have positive emotions with other people then children it will be easier to interact socially with other people. Therefore emotional and social development is often referred to as socio-emotional development. Social development is a process achieving maturity in relationships social and learning in order to adapt to groups, traditions, and morals. On Basically, social development in young children elementary school can be observed with the relationship or interaction in class activities as well as outside of class. Besides with family, children can also bond with peers (Tusyana & Trengginas, 2019).

## **CONCLUSION AND RECOMMENDATION**

Child development is indeed something very complex, therefore we need to understand each stage and its changes in children. We can also understand that children's motor skills have a relationship with their social abilities. By training the child's movement coordination ability, surely it will also stimulate the nerves that connect each limb to the brain, and later on in the development of the brain, the child's cognitive ability will also increase. With a child who has good motor skills, I can be sure that he also has good social skills. that way, he will be able to more quickly adapt and blend into his environment, as he should develop.

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