The Influence of Motoric Ability Development on Child Aggressive Behavior is Reviewed from Social Class Level

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Abstract: This study aims to analyze and improve the relationship of motor development of children on aggressive behavior, either directly or indirectly through the social class of parents as intervening variables. The research method used is descriptive quantitative with explanatory method. The sample in this study was taken by random sampling technique with 100 children from kindergarten in Malang. Data completion technique using questionnaires, while the data analysis techniques used are descriptive and inferential statistics with path analysis. The results showed that there was a positive and significant influence of children’s gross motor development against aggression. There is no indirect influence of gross motor development of children against aggression through social class of parents as intervening variable.

Keywords: motoric development, aggressive behavior, social class of parents, children

I. INTRODUCTION

Based on six aspects of development that exist in early childhood, a child’s physical motor development is of particular concern in a research study, because the process of physical growth of children’s motor can affect their lives in the future (Papalia, Olds, & Feldman, 2004; Zulkifli, 2001; Werner, 2006). The results also show that there is a causal relationship between the physical development of the child’s motor with other developments such as intellectual or cognitive development of motor as well as motor influence on language development (Oden & Asher, 1977; Schneider, 2000).

Motor development includes coarse and fine motor (Sumantri, 2005). Rough motor is a body movement that uses large muscles or most or all of the limbs that are affected by the maturity of the child itself, such as the ability to sit, kick, run, up and down stairs and so forth. While fine motor is a movement that uses the smooth muscles or certain parts of the body, which is influenced by opportunities to learn and practice such as the ability to move objects from the hand, doodling, arranging blocks, cutting, writing and so forth. Both of these abilities are essential so that the child can develop optimally (Kanioglou, et al., 2005).

The role of motor skills of children is considered very central for life support. Hurlock (2008) mentions that motor development, especially gross motor is one of the most important factors, some influence of motor development toward the constellation of individual development presented by Sadock et al. (2007) through motor skills, the child can amuse himself. Motor development at this age becomes smoother and more coordinated compared to infancy. Children look faster in running and are good at jumping and abilities to keep their balance. The process of refining motor skills, children continue to perform a variety of physical activities that are sometimes informal in the form of a game. In addition, children also engage in formal sports activities such as gymnastics and swimming (Ladd and Kochenderfer-Ladd, 2002).

Early detection of child growth consists of careful monitoring of physical motor growth, cognitive development, psychosocial development. Each developmental parameter has its own stages according to the development of age. The toddler period is a golden age in the developmental range of an individual. At this time, children experience extraordinary growth, both in terms of physical, motor, emotional, cognitive and psychosocial. Child development takes place in a holistic or holistic process. Therefore, the provision of stimulation also needs to take place in a holistic activity (Erwin, 2003; Kostelnik, et al., 2005). Motor development is different in each individual level. Four-year-olds can easily use scissors while others may be over five or six years of age. Certain boys may be able to snack and catch the ball easily while others may only catch large or rolling balls. Similarly, environmental stimulation, nutritional status, race and genetics have an important influence in motor development (Shaffer, et al., 2005; Sigurdsson, et al., 2002).

The study of rough motor relationships with the social development of children, especially in the school environment and playing environment with peers is still quite rarely studied. However, some of the results of existing studies show that there is an influence between motor development, especially motor rough with social development of children (Dunn, et al., 2007; Erwin, 2003; Galay, 2010; Kostelnik, et al., 2005). Deeper Morrison (2000) reveals that motor development is a sequence of children’s learning that focuses on body movement, in which the movement plays an important role in the life of the child especially related to behavior and social life. In order for children to have no problems with their social life, it is necessary to monitor the gross motor development by observing the child’s ability to control the balance movement, coordination, environmental awareness, and game playing skills. Williams and Monsma (2007) explain that children’s social skills are determined by the quality of physical health, nutrition, child motor, intellectual and psychological even family environment conditions.

The child’s social skills are the ability to interact with others in a social context in ways that are socially acceptable and values and at the same time useful to themselves and others (Coolahan, Fantuzzo, Mendez, & McDermott, 2013). Social skills in children include empathy in which children expressing their feelings, generosity or generosity, cooperation and care. The early child begins to have the ability to adapt...
Social skills in children in forming peer groups can develop children’s social activities, children begin to work together, recognize roles in groups, understand others, and make friends (Williams and Monsma, 2007). According to Gulay, Seven and Damar (2010) explains that children’s social skills can be detected using eight subvariables, namely: (1) pro-social behavior; (2) aggression; (3) asocial behavior; (4) exclusion affected; (5) fear and Anxiety; (6) hyperactivity and distractibility; (7) victimization; and (8) peer acceptance. This study will only focus on aggression or aggression variables. Aggression is an individual behavior that is intended to injure or harm other individuals who do not want the behavior to come (Baron, 2003). Children who have good physical conditions, especially good rough motor physical and perfect in its development, contribute to the emergence of the character of aggression in children although not too dominant (Erwin, 2003). The high level of aggression that is owned by the child is dominated by personality factors, but the motor physical factors become a means in achieving that goal, because without a good physical motor a child will not have the ability and confidence to do aggression because it will result in retaliation from his friend (Ladd and Kochenderfer-Ladd, 2002).

Gallahue and Ozmun (2006); Ulrich, (2000), rough motor development of children develops optimally occurs at the age of 2-6 years. During this period the basic patterns of motor development begin to form from simple movements into complex movements. Ozer and Ozer (2004) explain if the aspects of development go according to the level of development it will not interfere with other aspects of development will even greatly support the development of children one of them related to confidence of children. The correlation between cognitive development and development. Davies (2000) states that rough motor skills affect the self esteem and peer relations of the children. Studies show that children with inadequate rough motor skills can be socially isolated in their peer group. Motor skills and social skills during preschool are areas that affect the general development of children in the long run (For et al., 2001). The results of other studies show that children with delays in motor development will have an impact on other aspects of development such as language development, academic achievement, adjusting to the environment of friends impacting social skills (Gabbord, 2006; Gallahue and Ozmun, 2006).

The relationship of gross motor development and social development of children can also be influenced by the social class of the family. Williams and Monsma (2007) explain that children’s social skills are determined by the quality of physical health, nutrition, child motor, intellectual and psychological even family environment conditions. Family environment conditions that can affect the development of children are social class or social status. Classification of social class in research using social position index (ISP) as stated in journal Mihic and Culina (2006) which of course modified and adapted to this research. Classification of social class using an ISP is classification of social class based on three determinant factors, namely work, education, and income. Connell, & Prinz, (2002) describe the social conditions of the parent class will have an impact on the fulfillment of nutrition, access to health facilities and facilities, consumption, and access to the quality of education so that it can affect the social development of children.

Relating to the context of the researcher took the location of research in the city of Malang precisely in kindergarten aged 5-6 years in kindergarten Se-Gugus 8 District Lowokwaru Malang. The reason, researchers chose Palm Kids as the object of research because the kindergarten is one kindergarten in the housing complex Elite Araya Malang. Most children come from families with higher social class. However, the interesting phenomenon is that kindergarten K-8 Cluster of Lowokwaru Sub-district always provides scholarships to underprivileged children, especially those residing in residential areas or families working in the housing. They place 10-15 seats of scholarship to these underprivileged children and mix them with other students. So from 3 grades TK B one class of them is mixed class. Based on this background, the researcher wanted to focus the discussion on “The Influence of Rough Motor Development against Child Aggression Where Social Class of Parent as Variable Intervening (Study In children aged 5-6 years in kindergarten for 8 sub districts of Lowokwaru Malang). The purpose of this research is: (1) to analyze the direct influence of children’s gross motor development toward aggression; and (2) to analyze the indirect influence of children’s gross motor development toward aggression through social class of parents as intervening variable.

II. METHODS

Research Design

In this research, the writer uses a descriptive method with quantitative approach. Bungin (2008) argues that quantitative research with descriptive format aims to explain, summarize various conditions, various situations, or various variables that arise in the community that became the object of research based on what happened, generally this study using inductive statistics to analyze research data. In addition to descriptive formats, the type of research to be used in this study is exploratory research or research directed to explain a situation or the situation (Notoatmodjo, 2005). Type explanatory research is the same as the correlation, where in this method described the relationship or influence between variables studied. In relation to the objectives of the study, this study uses a survey method, ie, the research obtained from sampling of a population and using questionnaires and observation or observation sheets as a basic data collection tool (Singarimunibun, 2006). This explanatory research aims to find out the direct and indirect influence of children’s gross motor development variable toward social development where the social class of parents as intervening variable.
### Table 1
**Variable Operationalization of Research Indicators**

| No | Variable | Indicator | Reference |
|----|----------|-----------|-----------|
| 1  | Gross motor skills child roughly 5-6 years old (X) | 1. Walk with the heels of your feet, on your toes, jump up irregularly, and run well.  
2. Standing on one leg for 5 seconds or more, controlling the balance, standing on a 4-inch beam (10.16 cm), but having difficulty walking a 5 cm wide beam without seeing the foot  
3. Down stairs with legs alternately, can estimate foot ground.  
4. Can jump with adequate tempo rules and be able to play games that require quick reaction  
5. Begin to coordinate his movements when climbing or rolling on a small trampoline (screen cloth in the range to accommodate acrobats)  
6. Shows increased endurance in longer periods, sometimes too excited and loses self-control in group activities | STPPA Permen 137 and 146 |
| 2  | Child social development (Y) | Behaviour (Y1)  
1. Have the ability to share the taste  
2. Have the ability cooperation  
3. Has the ability to contribute  
4. Have a concern  
5. Have attention | Baron & Byrne (2005) |
|    |          | Behavior of Physical Aggression (Y2)  
1. Direct active physical aggressive behavior  
2. Indirect physical actual aggressive behavior  
3. Direct passive physical aggressive behavior  
4. Indirect passive physical aggression behavior  
5. Direct  
6. Indirect physical actual aggression behavior  
7. Direct passive physical aggressive behavior  
8. Indirect passive physical aggression behavior | Erwin (2003) |

### Table 2
**Variable Social Class (Index of Social Position Research)**

| Employment Scale (Weight Value 4) | Score |
|-----------------------------------|-------|
| Description                       |       |
| Part time worker                  | 10    |
| Uneducated workers (domestic servants, gardeners, casual workers) | 9 |
| Small and non-permanent farmers   | 8     |
| Retirees who are solely dependent on benefits | 7 |
| Skilled workers (haircuts, factory workers, secretaries, and other wealthy classes) | 6 |
| Medium manger, supervisor, small business owner, government official | 5 |
| Teachers, lecturers, military, police and other civil servants | 4 |
| Upscale professionals such as Doctors, artists, renowned artists, renowned painters, famous designers) | 3 |
| Top managers, medium business owners (10-20 employees) | 2 |
| High-ranking corporate executives, large business owners, senior officials (ministers, parliament) | 1 |

| Education that is being pursued or already taken | Score |
|--------------------------------------------------|-------|
| Never had an education                           | 10    |
| Elementary School (SD)                          | 9     |
| Junior High School (SMP)                        | 8     |
| High School / Vocational School (SMA / SMK)     | 7     |
| Diploma 1 (D1)                                  | 6     |
| Diploma 2 (D2)                                  | 5     |
| Diploma 3 (D3)                                  | 4     |
| Strata 1 / Diploma 4 (S1 / D4)                  | 3     |
| Strata 2 (S2)                                   | 2     |
| Strata 3 (S3)                                   | 1     |

| Education Scale (Weight Value 3) | Score |
|----------------------------------|-------|
| Total Revenue per Month (IDR)    |       |
| < 1.882,250                      | 10    |
| 3,764,500                        | 9     |
| 5,646,750                        | 8     |
| 7,529,000                        | 7     |
| 11,293,500                       | 6     |
| 15,058,000                       | 5     |
| 18,822,500                       | 4     |
| 24,469,250                       | 3     |
| 30,116,000                       | 2     |
| > 30,116,000                     | 1     |

Source: Mihic and Culina (2006)

### Table 3
**Classification Techniques Social Class**

| Social Class Level | Range Score |
|--------------------|-------------|
| Upper and upper middle class | 10-27 |
| Middle class       | 28-60       |
| Lower and Lower Class | 61-100     |

Source: Mihic dan Culina (2006)
Research Variables
Based on the theories and concepts that have been formulated, can be explained variables, indicators, and items in this study are presented in Table 1. For the purposes of calculation, the score of social class assessment results are then grouped into 3 levels of social class that is upper, middle, and lower class by referring to the Table 3.

Population and Sample
Population is all data that concerns us in a scope and time that we specify. So within the scope of this study, the population in the study were all students kindergarten B-Gugus 8 Lowokwaru District, Malang City, East Java, Indonesia. Sampling technique that will be used in this research is Random sampling. Random sampling is a method of random sampling of population members into samples (Hidayat, 2007). Using 100 children from Kindergarten Gugus 8 Lowokwaru District, Malang City, East Java, Indonesia.

Research Hypothesis and Research Design
Research hypothesis is: H1 there is a direct influence on children’s gross motor development against aggression; and H2 there is an indirect effect of gross motor development of children on aggression through social class of parents as intervening variable. Research design illustrated Figure 1.

Data Analysis Techniques
This research uses inferential analysis that is inferential statistic is a statistical technique used to analyze sample data and the result applies to population (Sugiyono, 2010). Based on the hypothesis and the research design, the data collected in this study were analyzed using path analysis technique (path analysis).

III. RESULT AND DISCUSSION
Overview of Research Variables
Social Class
Social class is the distinction of the population or society into the hierarchical classes, in which the class distinction in society is based on the economic, educational, occupational and related factors of a family member with the status of other family members. When the position of the head of the family goes up, then the status of other family members goes up as well. The embodiment of layers or classes of high, medium, or low classes in this study is based on classification of social class using the Index of Social Position (ISP) is a classification of social class based on three determinants of work, education, and income. Description of respondents’ revenue (Table 4); respondents education picture (Table 5); and job description of respondents (Table 6).

| No | Income (IDR)   | Amount | Percentage |
|----|---------------|--------|------------|
| 1  | > 30,400,000  | 4      | 4%         |
| 2  | 24,700,001-30,400,000 | 4 | 4% |
| 3  | 19,000,001-24,700,000 | 8 | 8% |
| 4  | 15,200,001-19,000,000 | 10 | 10% |
| 5  | 11,400,001-15,200,000 | 10 | 10% |
| 6  | 7,600,001-11,400,000 | 13 | 13% |
| 7  | 5,700,001-7,600,000 | 15 | 15% |
| 8  | 3,800,001-5,700,000 | 13 | 13% |
| 9  | 1,900,001-3,800,000 | 17 | 17% |
| 10 | <1,900,000    | 6      | 6%         |
|    | Total         | 100    | 100%       |

Table 5
Respondents Education Picture

| No | Education                      | Amount | Percentage |
|----|--------------------------------|--------|------------|
| 1  | Not School                     | 0      | 0%         |
| 2  | Primary School                 | 0      | 0%         |
| 3  | Secondary School               | 5      | 5%         |
| 4  | Senior High School / Vocational High School | 23 | 23% |
| 5  | Diploma 1 (D1)                | 13     | 13%        |
| 6  | Diploma 2 (D2)                | 8      | 8%         |
| 7  | Diploma 3 (D3)                | 11     | 11%        |
| 8  | S1/D4                          | 38     | 38%        |
| 9  | S2                             | 2      | 2%         |
| 10 | S3                             | 0      | 0%         |
|    | Total                          | 100    | 100%       |
Table 6
Job Description of Respondents

| No | Type of Work                                                                 | Amount | Percentage |
|----|-------------------------------------------------------------------------------|--------|------------|
| 1  | High corporate executives, large business owners, high officials              | 9      | 9%         |
| 2  | Top managers, medium business owners (10-20 employees)                        | 19     | 19%        |
| 3  | Upscale professionals                                                         | 7      | 7%         |
| 4  | Teachers, lecturers, military, police and other civil servants                | 14     | 14%        |
| 5  | Medium manager, supervisor, small business owner, government official         | 21     | 21%        |
| 6  | Skilled laborers and other wealthy classes                                    | 28     | 28%        |
| 7  | Retirees who are solely dependent on benefits                                 | 1      | 1%         |
| 8  | Small and non-permanent farmers                                               | 1      | 1%         |
| 9  | Uneducated                                                                  | 0      | 0%         |
| 10 | Part time worker                                                             | 0      | 0%         |

Table 7
Description of Respondent’s Social Class Level

| No | Social Class Level     | ISP Value | Amount | Percentage |
|----|------------------------|-----------|--------|------------|
| 1  | High Social Class      | >28       | 11     | 11%        |
| 2  | Medium Social Class    | 29-60     | 54     | 54%        |
| 3  | Low Social Class       | 61-100    | 35     | 35%        |
|    | Total                  |           | 100    | 100%       |

Table 8
Distribution of Respondent Answers to Variables of Aggression Behavior

| No | Item   | SB (5) | F % | S (4) | F % | CB (3) | F % | KB (2) | F % | TB (1) | F % | Mean |
|----|--------|--------|-----|-------|-----|--------|-----|--------|-----|--------|-----|------|
| 1  | Y_PA1  | 1      | 1%  | 20    | 20% | 28     | 28% | 43     | 43% | 8      | 8%  | 2.63 |
| 2  | Y_PA2  | 1      | 1%  | 17    | 17% | 33     | 33% | 40     | 40% | 9      | 9%  | 2.61 |
| 3  | Y_PA3  | 1      | 1%  | 18    | 18% | 35     | 35% | 38     | 38% | 8      | 8%  | 2.66 |
| 4  | Y_PA4  | 1      | 1%  | 6     | 6%  | 40     | 40% | 48     | 48% | 5      | 5%  | 2.5  |
| 5  | Y_PA5  | 1      | 1%  | 23    | 23% | 36     | 36% | 39     | 39% | 1      | 1%  | 2.84 |
| 6  | Y_PA6  | 1      | 1%  | 12    | 12% | 44     | 44% | 35     | 35% | 8      | 8%  | 2.63 |
| 7  | Y_PA7  | 1      | 1%  | 27    | 27% | 34     | 34% | 35     | 35% | 3      | 3%  | 2.88 |
| 8  | Y_PA8  | 2      | 2%  | 23    | 23% | 33     | 33% | 35     | 35% | 7      | 7%  | 2.78 |

Table 9
Variable Value Category

| No | Mean Value | Category         |
|----|------------|------------------|
| 1  | 4.21-5.00  | Very High / Good |
| 2  | 3.41-4.20  | High / Good      |
| 3  | 2.61-3.40  | High enough / Good Less |
| 4  | 1.81-2.60  | Low              |
| 5  | 1.00-1.80  | Bad / Low        |

Table 10
The Gross Motor Development of Children

| No | Item   | SB (5) | F % | S (4) | F % | CB (3) | F % | KB (2) | F % | TB (1) | F % | Mean |
|----|--------|--------|-----|-------|-----|--------|-----|--------|-----|--------|-----|------|
| 1  | X_MK1  | 35     | 35% | 33    | 33% | 27     | 27% | 5      | 5%  | 0      | 0%  | 3.98 |
| 2  | X_MK2  | 26     | 26% | 36    | 36% | 31     | 31% | 7      | 7%  | 0      | 0%  | 3.81 |
| 3  | X_MK3  | 28     | 28% | 41    | 41% | 21     | 21% | 10     | 10% | 0      | 0%  | 3.87 |
| 4  | X_MK4  | 27     | 27% | 45    | 45% | 22     | 22% | 6      | 6%  | 0      | 0%  | 3.93 |
| 5  | X_MK5  | 20     | 20% | 52    | 52% | 22     | 22% | 6      | 6%  | 0      | 0%  | 3.86 |
| 6  | X_MK6  | 19     | 19% | 52    | 52% | 26     | 26% | 3      | 3%  | 0      | 0%  | 3.87 |
| 7  | X_MK7  | 15     | 15% | 65    | 65% | 16     | 16% | 4      | 4%  | 0      | 0%  | 3.91 |
| 8  | X_MK8  | 18     | 18% | 51    | 51% | 26     | 26% | 5      | 5%  | 0      | 0%  | 3.82 |
| 9  | X_MK9  | 24     | 24% | 56    | 56% | 17     | 17% | 3      | 3%  | 0      | 0%  | 4.01 |
| 10 | X_MK10 | 19     | 19% | 48    | 48% | 29     | 29% | 4      | 4%  | 0      | 0%  | 3.82 |
| 11 | X_MK11 | 16     | 16% | 38    | 38% | 32     | 32% | 14     | 14% | 0      | 0%  | 3.56 |

Assessment of Social Class ISP
The social class is the distinction of the population or society into the hierarchical classes, which manages the class distinction in that society on the economic, educational, occupational and related factors of a family member with the status of the other, when the head families rise, then the status of other family members go up as well. Based on Table 7, most of the social classes are with the range 29-60 of 54 respondents, range 61-100 with low social class that is as many as 35 respondents, range > 28 high social class that is as much as 11 respondents, so it can be concluded that most respondents are in a moderate social class.

Variable of Aggression Behavior
Based on the observation results can be seen that the behavior of child aggression in the category is quite high because it is in the range 2.61-3.40 with an average of 2.69. The results of observation data seen in
the following Table 8 and variable value category illustrated Table 9.

**Crude Motor Variables**

Based on the observation it can be seen that the gross motor development of children is in the high category with an average of 3.86 because it is in the range of 3.41-4.20. The results of observation data seen in the following Table 10.

Based on the data it can be interpreted as follows:
1. There is a gross motor positive effect on aggression behavior of 0.730, or the better the child’s harsh motor, the higher the aggression behavior. Where the significant influence or consistent because the significance value < from 0.05 and t-count (9.016) > t-table 1.660. While based on the results of $r^2$ test shows the number 0.453 or the influence contributes 45.3% and the rest is influenced by other variables;
2. There is a gross motor positive effect on the social status of 0.751, or the better the gross motor of the child the higher the social status. Where such influence is significant or consistent since the significance value < from 0.05 and t-count (6.196) > t-table 1.660. Whereas based on $r^2$ test results showed the number 0.281 or the effect contributes 28.1% and the rest is influenced by other variables;
3. There is a negative effect of social status on aggression behavior of -0.005, or the better the social status of children the aggression behavior is lower. Where such influence is significant or consistent since the significance value < from 0.05 and t-count (-2.156) > t-table 1.660. While based on the test results $r^2$ shows the number 0.045 or the influence contributes 4.5% and the rest is influenced by other variables.

Through the description of path analysis can be explained the magnitude of the path coefficient on each relationship of two variables, where the relationship has a direct and indirect influence. Direct influence is the influence of independent variables on the influence of the dependent variable directly without going through another variable. The indirect effect is the influence of the independent variable on the dependent variable through another variable.

**Coefficient of Line Influence of Rough Motor Development Against Behavior of Aggression Directly or Indirectly Through Social Status**

The table below illustrates the test results of the effect of gross motor development on aggression behavior directly or indirectly through social status which is presented as follows (Table 11).

| Independent Variable | Dependent Variable | Coefficient of Beta | P-Value | t-count | $r^2$ | Conclusion |
|----------------------|--------------------|---------------------|---------|---------|------|------------|
| Gross Motor          | Aggression Behavior| 0.730               | 0.000   | 9.016   | 0.453| Significant|
| Gross Motor          | Social status      | 0.751               | 0.000   | 6.196   | 0.281| Significant|
| Social status        | Aggression Behavior| -0.005              | 0.034   | -2.156  | 0.045| Significant|

Based on the results of the data analysis can be seen that the indirect effect of -0.003755 smaller than the direct influence of 0.730 this proves that social status does not give impact or intervening influence between gross motor development against aggression behavior. Based on the results of the above analysis can be formed the path of direct influence as follows (Figure 2).

Aggression is an individual behavior that is intended to injure or harm other individuals who do not want the behavior to come (Baron, 2003). Berkowitz explains that aggression as any form of behavior that is meant to harm a person both physically and mentally. For Berkowitz the negative feelings posed by a stress can produce a tendency of anger and aggression behavior. Aggressiveness, (Sarwono, 2005) can be influenced by things that can stimulate it, the stimulus or influence of the aggression may come from outside the self (i.e. environmental conditions or group influences) or from the actors themselves (the influence of physical condition and personality). Children who have good physical conditions, especially good rough motor physical and perfect in its development, contribute to the emergence of the character of aggression in children although not too dominant (Erwin, 2003). The high level of aggression that is owned by the child is dominated by personality factors, but the motor physical factors become a means in achieving that goal, because without a good physical motor a child will not have the ability and confidence to do aggression because it will result in retaliation from his friend. (Ladd, and Kochenderfer-Ladd, 2002).

**Hypothesis Testing**

**Summary of Path Coefficients**

Table 12

| Influences of Variable | Tests Results Direct and Indirect Relationships |
|------------------------|-----------------------------------------------|
|                        | Direct Influences | Indirect Influences |
| X to Y                 | 0.730             |                   |
| X to Z                 | 0.751             | (0.751) x (-0.005) = -0.003755 (sign.) |
The results showed that there is a positive and significant effect of gross motor development of children on aggression behavior, this proves that the better or higher the motor development of children’s rough, the child tends to be aggression and violence in other children because they have a better physical. There is an indirect effect of gross motor development of children on aggression behavior through the social class of parents as intervening variables, where high social class seen from social status, income and family education can reduce the negative impact of children’s motor on aggression behavior.

This is in accordance with the research of Asher, Tinsley and Hymel (2009) which states that children have high curiosity and tend to try something new. But the nature of their curiosity is still opposite to each other’s ego so that it appears the nature of winning themselves and do not want to know. Supported by high physical motor they will tend to be aggressive and will even violate their friends when they want something.

Rough Motoric in Children 5-6 Years (Kindergarten B)

Motors in early childhood are needed, to develop the intelligence of children in the field of language development, cognitive, art and creativity. The motor translation of Gallahue’s “motor” in Samsudin (2005) is a biological or mechanical basis that causes a motion. In other words motion (movement) is the culmination of an action that is based on the motor. Motor development at the age of kindergarten is based on activity. Activity of kindergarten children using Physical or Physical activity is 80%.

Rough motor is the ability of gestures that use large muscles, most or all of the rough motor parts in need so that children can sit, kick, run, up and down stairs and so on (Sunardi and Sunaryo, 2007). Rough motor development of the child first than the fine motor, for example the children will first hold objects of larger size than the small size. Because the child has not been able to control the movement of his fingers for fine motor skills, such as make a necklace, cutting and others.

Irianto (2002) states that physical fitness can be grouped into three: (1) statistical fitness; (2) dynamic fitness; and (3) motorized fitness. Sujiono (2007) suggests that elements of physical fitness include strength, endurance, speed, agility, flexibility, coordination, precision and balance. Further Sujiono (2007) states that the movement that arises and occurs in the rough motor is a movement that occurs and involves large muscles of the body, and require considerable energy.

Barrow and McGee (1976) suggest that elements of motor skills consist of: strength, speed, power, endurance, agility, balance, flexibility, and coordination. The same thing is also explained by Mutohir and Gusril (2004) that elements of motor skills include:

1. Strength is the skill of a group of muscles to generate power during contractions. Muscle strength must be possessed by children early on. If the child does not have muscle strength, the child cannot perform physical play activities such as: running, jumping, throwing, climbing, hanging, and pushing;
2. Coordination is a skill to unite or separate in a complex task. Provided that coordination movements include the perfection of time between muscles and the nervous system. For example: the child in doing the throwing must have coordination of all the limbs involved. The child is said to coordinate his movement well if the child is able to move easily, smoothly in the circuit and the rhythm of his movement is well controlled;
3. Speed is a skill that is based on the abilities of a given time unit. For example: how far the distance traveled in a child to run four seconds, the farther the distance in the child, the higher the speed;
4. Balance is a person’s skill to maintain the body in various positions. Balance is divided into two forms: static and dynamic balance. The static balance refers to maintaining the balance of the body when it stands somewhere. Dynamic balance is a skill to maintain body balance when moving from one place to another. He adds that static and dynamic balance is an oversimplification. In add two elements of complex balance and very specific in individual task and motion;
5. Agility is one’s skill to change the direction and position of the body quickly and precisely when moving from point to point. For example: playing...
fishing fish, playing cat and rats, playing black, green the faster the time it takes to touch and the speed to dodge, the higher the agility.

Thus the elements applied in the playing of the boarding, board include: strength, coordination, and balance. These elements are required by the child during the activity of the walking bag on the board.

**Characteristics of Motor Development of Ages 5-6 Years (TK B)**

In choosing methods to develop children’s motor skills, teachers need to adapt them to the characteristics of kindergarten children who are constantly on the move, hard to be quiet, have strong curiosity, enjoy experimenting and testing, are able to express themselves creatively, have imagination and love to talk (Sujiono, 2005). According to Bredekamp and Copple (Sujiono, 2005) children aged 5-6 years can already do the following activities:

1. Walking on the heels of your feet, on your toes, jumping irregularly, and running well;
2. Standing on one leg for 5 seconds or more, controlling the balance, standing on a 4 inch (10.16 cm) beam, but having difficulty walking the 5 cm wide beam without seeing the foot;
3. Down stairs with legs alternately, can estimate foot ground;
4. Be able to overcome with adequate tempo rules and be able to play games that require quick reaction;
5. Begin to coordinate his movements when climbing or rolling on a small trampoline (screen cloth in the range to accommodate acrobats);
6. Shows increased endurance in longer periods, sometimes too excited and loses self-control in group activities.

The development of children aged 5-6 years is very rapid. At this age, children begin to develop new skills and improve the skills they already possess. This development is also shown by a good balance in climbing the beam / skis, jumping over objects, jumping well, jumping ropes, jumping and descending through stairs, climbing, coordinating swims, and even riding a bicycle.

**Aggression Behavior in Children**

Baron and Bryne (2000) define aggression behavior as a form of behavior intended to injure or harm other individuals who do not want the behavior to come. Based on these definitions obtained four notions of aggression, the first is aggression is a form of behavior is not emotional, the need for the second motive is the perpetrator of aggression has a purpose to harm the victim, the third is the victim of aggression that is a living thing is not an inanimate object, while the fourth is Victims of this aggression behavior do not want or avoid the behavior of perpetrators of aggression.

Based on several definitions put forward by experts can be drawn the general conclusion that the behavior of aggression is a form of behavior that is a reaction to frustration or inability to satisfy basic psychological needs intended to harm or injure living things or inanimate objects either physically or verbally, Either directly or indirectly.

**Dimensions of Aggression Behavior**

Buss states that aggression behavior can be classified into three dimensions: physical-verbal, active-passive and direct-indirect (Burchinal, Peisner-Feinberg, Pianta, & Howes, 2002). The difference in the physical-verbal dimension lies in the difference between hurting the physical (body) of others and attacking with words. The difference in the passive-active dimension is the difference between concrete action and failure to act, whereas direct aggression means face to face contact with the person being attacked and indirect aggression occurs without contact with the person being attacked. The combination of these three dimensions results in a framework for categorizing various Forms of aggression behavior, namely:

1. Direct active physical aggressive behavior. Acts of physical aggression by individuals / groups by dealing directly with other individuals / groups who become the target and direct physical contact.
2. Indirect physical actual aggression behavior. Acts of physical aggression committed by individuals / groups by not dealing directly with other individuals / groups who become the target.
3. Direct passive physical aggression behavior. Acts of physical aggression by other individuals / groups by dealing with other targeted individuals / groups but no direct physical contact.
4. Indirect passive physical aggression behavior. Acts of physical aggression by other individuals / groups by not dealing with other targeted individuals / groups and no direct physical contact.
5. Direct verbal aggression behavior. Verbal aggression acts committed by other individuals / groups by dealing directly with other individuals / groups.
6. Indirect verbal aggression behavior. Verbal aggression acts committed by other individuals / groups by not dealing directly with other individuals / groups who become the target.
7. Direct passive verbal aggression behavior. Acts of physical aggression by individuals / groups by dealing directly with other individuals / groups who become the target and direct physical contact.
8. Indirect physical actual aggression behavior. Acts of physical aggression committed by individuals / groups by not dealing directly with other individuals / groups who become the target.
9. Direct passive physical aggression behavior. Acts of physical aggression by other individuals / groups by dealing with other targeted individuals / groups but no direct physical contact.
10. Indirect passive physical aggression behavior. Acts of physical aggression by other individuals / groups by not dealing with other targeted
individuals / groups and no direct physical contact.

11. Direct verbal aggression behavior. Verbal aggression, acts committed by other individuals / groups by dealing directly with other individuals / groups.

12. Indirect verbal aggression behavior. Verbal aggression acts committed by other individuals / groups by not dealing directly with other individuals / groups who become the target.

Social Class

Soekanto (2006) explains that in society there is something that is appreciated and every society there is something that is appreciated. Any valuable thing can be money or other economic value items, perhaps also land, science, power, religious piety, and possibly descent. Something that is appreciated is actually an embryo or seed that cultivates a multi-layered system, within the community. A higher appreciation of certain things will place them at a higher position than anything else.

Soeroso (2008) defines the social class as a stratum of persons of the same rank in the unity (sequence) of social status. This definition tells us that in society, there are people who are individually or together have more or less the same social standing.

They have more or less the same position will be in a more or less the same layer. The social positions of such persons shall be compared to those of others who have more or less equal social standing. Such a comparison would cause a group of people of the same rank to be above or below another group of people, then appear in the upper, middle, and lower social classes based on certain criteria.

From some of the definitions put forward by sociologists above can be concluded that the social class is the distinction of the population or society in the classes on a level (hierarchical), in which the class distinction in society is based on economic factors, education, employment and linkage status (position) of a family member with the status of another family member, when the family head position rises, then the status of other family members go up as well. The embodiment is the layers or classes of high, medium, or low classes. There are nine variables that determine a person’s social status or class. According to Engel, Blackwell, and Miniard (2005) mentioned that there are nine variables that determine the status or social class of a person. The nine variables are classified into three categories, namely economic, interaction, and politics. The variables are: (1) work; (2) income; (3) wealth; and (4) education.

| Table 13 |
|---|
| **Index of Social Status** |
| **Occupation Scale (Weight of 4)** |
| Description | Score |
| Unemployed; housekeepers | 10 |
| Students | 9 |
| Pensions | 8 |
| Machine operators and semi-skilled employees; employed in marginal semi-skilled and unskilled jobs | 7 |
| Skilled employees - workers in manufacturing, retailing, catering and service industries; bus and truck drivers, police and firefighters, etc. | 6 |
| Administrative personnel (office workers), technicians and similar occupations | 5 |
| Public school teachers, engineers, freelancers | 4 |
| Middle management; owners of small businesses; government officials; moderately successful professionals | 3 |
| Higher level business executives or managers; owners of middle-sized businesses (10-20 employees); successful professionals | 2 |
| Government top officials, top corporate executives, leading prominent professionals, “rich” business owners (large business owners) | 1 |
| **Education Scale (Weight of 3)** |
| Description | Score |
| No education | 10 |
| Incomplete elementary school | 9 |
| Elementary school | 8 |
| Skilled worker | 7 |
| Secondary education | 6 |
| Highly skilled worker | 5 |
| College degree | 4 |
| University degree | 3 |
| Specialist | 2 |
| Master, PhD | 1 |
| **Income Scale (Weight of 3)** |
| Description | Score |
| Up to 1000 KN | 10 |
| Up to 2000 KN | 9 |
| Up to 3000 KN | 8 |
| Up to 4000 KN | 7 |
| Up to 6000 KN | 6 |
| Up to 8000 KN | 5 |
| Up to 10000 KN | 4 |
| Up to 13000 KN | 3 |
| Up to 16000 KN | 2 |
| More than 16000 KN | 1 |

Source: Mihic dan Culina (2006)
Classifying Social Class

Classification of social class in research using social position index (ISP) as stated in journal Michic and Culina (2006) which of course modified and adapted to this research. Classification of social class using ISP is classification of social class which is based on three determinants namely work, education, and income. Each factor is weighted where the job factor is assigned a weight of number 4 as the main determinant of social class, education and income are weighted by number 3. Each respondent is accorded a number of points classified into one member of the three classes (top, middle, and below). The formula for calculating the ISP index is as follows:

$$ISP\ score = (Occupation\ score \times 4) + (Education\ score \times 3) + (Income\ score \times 3)$$

The classification of social classes conducted by Michic and Culina (2006) is as Table 13. Classification of social class conducted by Michic and Culina (2006) with ISP score is then adopted and modified based on the context and location of research in Malang. The type of work, education is changed based on the standards and educational institutions in Indonesia while the income is modified based on the UMR located in the research area. The calculation is done by collecting a sketch of the three existing scales and the result multiplied by the score (4, 3, 3). The score will classify a person in a high, medium, or low grade.

IV. CONCLUSION

Conclusion: (1) there is a positive and significant influence of children’s gross motor development against aggression; and (2) there is no indirect influence of gross motor development of children against aggression through social class of parents as intervening variable. Suggestions: (1) for parents should be able to provide stimulation in improving the motor development of children as well as providing stimulation in controlling child aggression through various social activities and play; and (2) for schools should develop a play program that can improve children’s social.

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