IDENTIFICATION OF FINE MOTOR SKILLS IN CHILDREN WITH INTELECTUAL DISABILITY

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Abstract: The purpose of this study was to describe fine motor skills in mentally retarded children. This study involved 20 mentally retarded children in special schools (SLB) in North Lombok. Identification was carried out using several data collection techniques, namely through observation, filling out instruments and interviewing the teacher. Identification of mentally disabled children focuses on several fine motor skills, namely: making curved lines, making horizontal lines, making circle patterns, cutting straight line pattern paper, cutting zigzag pattern paper, cutting circle pattern paper, cutting square pattern paper, simple drawing, coloring using colored pencils, coloring using crayons, and coloring using watercolors. The results of the study used descriptive analysis with two categorizations. Based on the results of the analysis, it was found that out of 20 mentally retarded children can be categorized as follows: on average 68% of children are in the Start Development category (MB), which means that children are starting to be able to do activities, but still with the help of teachers and 32% of children fall into the Developing Appropriate category Hope (BSH). Thus, through this identification it can improve fine motor skills in mentally retarded children by using other interesting methods or strategies.

Keywords: skill, finemotor, intelectual disability

Sumber: ICEHoS - International Conference on Education, Humanities, and Social Science
Children with special needs are children who need education and services that are different from children in general (Cahya, 2013). In this case, children with special needs need a modification in learning activities at school in order to be able to develop according to their maximum capacity according to their respective capacities. One of the children with special needs is a mentally retarded child. Mentally retarded children are children who have intelligence below average and are characterized by limited intelligence and do not have social skills (Atmaja, 2018). In line with this, Somantri (2006) suggests that the term mental retardation is used to refer to children who have intellectual abilities below average.

In accordance with UU No. 20 of 2003 in Pasal 5, it is explained that citizens have the same rights in obtaining quality education. In the same article, it is explained that the colors of the State who have physical, emotional, mental and intellectual disabilities receive special education.

Mentally retarded children can study at special schools (SLB). In the implementation of learning, of course, it is different from children in general, both in the material needed and the method of presentation. Within the scope of the Special School there are special programs for students, one of which is for mentally retarded students. The scope of special programs for the self-development of mentally retarded children is taking care of themselves, taking care of themselves, helping themselves, communicating, socializing, life skills and filling spare time.

In implementing a special program for mentally retarded children, it will involve fine motor skills to support life skills activities in carrying out daily activities. Fine motor skills are skills in managing and coordinating small muscles (Rahyubi, 2012: 222). Fine motor skills also have a significant relationship to functional performance in self-care, mobility and social functioning (Cameron et al., 2012; Case Smith, 1995; Grissmer et al., 2010).

Another problem that often occurs based on the observations of researchers is that children's fine motor skills are not stimulated appropriately according to their age development stage. Often children are immediately given activities to write numbers and letters. Meanwhile, for children to reach the writing stage correctly, their fine motor skills need to
be optimized gradually. Children whose fingers are not strong enough, but have been forced to write directly on paper, will often strike down writing (Paramita, 2017). For this reason, the importance of strengthening the finger muscles first with the right stimulation to stimulate fine motor skills, only then can we teach children to write. Therefore, this study was conducted to be able to identify the fine motor skills of mentally retarded children in special schools (SLB) with the aim of knowing their fine motor skills so that they can be used as a reference or as a basis for providing appropriate methods to stimulate the fine motor skills of mentally retarded children.

LITERATURE REVIEW

Intellectual Disability

Atmaja (2018: 97) suggests that mentally retarded children are a condition of children whose intelligence is far below average and characterized by limited intelligence and inadequacy in social communication. According to Somantri (2006: 103) mental retardation is a term used to describe children who have intellectual abilities below average. The condition of children whose intelligence is below average and characterized by limited intelligence and inadequacy in social interactions. Therefore, they need special educational services that are tailored to the abilities of these children.

Mentally retarded children are children who have learning problems caused by obstacles to the development of intelligence, mental, emotional, social and physical Delphie (2006: 2). According to Kemis and Rosnawati (2013: 1) mentally retarded children are individuals who significantly have intelligence below normal intelligence with an IQ score equal to or lower than 70. Intelligence that is below the average for normal children will hinder all activities of daily life, both in terms of socializing, communication and academic disabilities.

Based on the explanation above, it can be concluded that mental retardation is a child who has a delay in the development of intelligence, so that it can hinder other aspects such as in terms of academic, communication and their daily activities.

Fine Motor Skill

Motor skills are the maturity of nerve muscles in supporting limb movement activities. The higher a person's motor development ability, the higher the possibility of working power,
and vice versa. According to Rahyubi (2012: 222) fine motor skills are skills in coordinating or managing small muscles. In line with Decaprio (2013: 20) fine motor skills are learning related to physical skills that involve small muscles and the presence of eye and hand coordination. Rohendi & Seba (2017: 119) defines fine motor skills as a body movement that uses fine muscles.

Based on the above opinions, it can be concluded that fine motor ability is an individual ability to use small muscles accompanied by eye and hand coordination in carrying out certain activities.

METHODOLOGY

This study uses several data collection techniques, namely: observation, filling out instruments and interviewing the teacher. Observations were made on 20 mentally retarded children at the Special School (SLB) in North Lombok, filling in the instruments by the teacher in the group. Meanwhile, interviews were conducted as an effort to obtain triangulation of sources.

The next stage, the researcher conducted the analysis. The analysis was carried out with descriptive statistics, in order to obtain the results of the fine motor skills achievement of mentally retarded children in Special Schools (SLB). The categories of the results of this study consist of two categories, namely: Starting to Develop (MB) and Developing according to Expectations (BSH). Starting to develop means that the child has begun to be able to carry out these activities, but still needs teacher assistance. and Developing according to Expectations (BSH) means that the child is able to do it independently, without the help of the teacher. The identification carried out by researchers in the study was focused on 11 fine motor activities as follows: fine motoric focus was: making curved lines, making horizontal lines, making circle patterns, cutting straight line pattern paper, cutting zigzag pattern paper, cutting circle pattern paper, cutting square pattern paper, drawing simple, coloring using colored pencils, coloring using crayons, and coloring using watercolors.

DISCUSSION

The following is a table of the results of the achievement of fine motor skills for 20 mentally retarded children who are in Special Schools (SLB) in North Lombok. The fine motor skills that
are focused on are: making curved lines, making horizontal lines, making circle patterns, cutting straight line pattern paper, cutting zigzag pattern paper, cutting circle pattern paper, cutting square pattern paper, simple drawing, coloring using colored pencils, coloring using crayons, and coloring using watercolors. The identification results are presented in the table below:

**Table 1. Achievement of Fine Motor Skills for Children with Intelectual Disabilities**

<table>
<thead>
<tr>
<th>No</th>
<th>Activities</th>
<th>Achievement of Development</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>MB</td>
</tr>
<tr>
<td>1</td>
<td>Make a curved line</td>
<td>14</td>
</tr>
<tr>
<td>2</td>
<td>Make a horizontal line</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>Make a circle pattern</td>
<td>17</td>
</tr>
<tr>
<td>4</td>
<td>Cut straight the pattern</td>
<td>7</td>
</tr>
<tr>
<td>5</td>
<td>Cutting zigzag pattern paper</td>
<td>15</td>
</tr>
<tr>
<td>6</td>
<td>Cutting the circle pattern</td>
<td>15</td>
</tr>
<tr>
<td>7</td>
<td>Cutting square pattern paper</td>
<td>12</td>
</tr>
<tr>
<td>8</td>
<td>Simple drawing</td>
<td>16</td>
</tr>
<tr>
<td>9</td>
<td>Coloring using colored pencil</td>
<td>14</td>
</tr>
<tr>
<td>10</td>
<td>Coloring using crayon</td>
<td>12</td>
</tr>
<tr>
<td>11</td>
<td>Coloring using watercolors</td>
<td>18</td>
</tr>
</tbody>
</table>

From the table above, it is known that in the activity of making curved lines, it was found that 14 children (70%) of 20 children achieved the Start of Development (MB) and 6 (30%) who developed according to expectations (BSH). In the horizontal line drawing activity, there were 10 children (50%) who achieved the Start of Development (MB) and 10 children (50%) who achieved the Development according to Expectations (BSH) achievement. For the activity of creating a circle pattern, there were 17 children (80%) who got the Start of Development (MB) and 3 (20%) who got the 'Developing as Expectations' achievement.

The next activity was cutting straight pattern paper, there were 7 (35%) of the 20 children who achieved the Start of Development (MB) and 13 children (65%) who developed according to expectations (BSH). To cut the zigzag pattern paper, there were 15 children (75%) who achieved the Start of Development achievement and 5 children (25%) who achieved the Development according to Expectations (BSH) achievement. Furthermore, in the circle pattern paper cutting activity, there were 15 children (75%) who achieved the Start of Development achievement...
and 5 children (25%) who achieved the Development according to Expectations (BSH) achievement. To cut square pattern paper, there were 12 children (60%) who achieved the Start Development achievement and 8 children (40%) who achieved the Developmental Expectations achievement. Cutting activities can stimulate fine motor skills in children, because through this activity the finger muscles are used to make them stronger (Lailah & Khotimah, 2013; Mahmudah, 2015).

In simple drawing activities, there are 16 (80%) of the 20 children who get the Start Development (MB) and 4 (40%) who get the Development according to Expectations (BSH) achievement. Through drawing activities, it can also improve fine motor skills in students (Sukamti, 2014).

The next activity is coloring. Coloring activities can be used with a variety of media, such as colored pencils, crayons and markers. As for some coloring activities carried out in this study. In coloring activities using colored pencils, there are 14 (70%) of 20 children who are starting to develop and 4 (30%) who develop according to expectations (BSH). To color using crayons, there were 12 children (60%) who achieved the Start of Development achievement and 8 children (40%) who obtained the Developmental Expectations (BSH) achievement. While coloring using paint, there were 18 children (90%) who obtained the Start of Development achievement and 2 children (10%) who obtained the achievement of Developing according to expectations. Coloring activity is a game that can provide opportunities for children to freely express themselves through various colors (Azizah & Wati, 2014). Coloring activities can also improve children's fine motor skills (Warnida, 2017).

Based on the exposure to the results of the achievement of children's fine motor skills development, it can be concluded that 68% of mentally retarded children still need assistance from the teacher in carrying out activities. Through this, it is hoped that in providing activities to be stimulated according to the stage of development, in order to strengthen the finger muscles to carry out activities from simple to more complex activities.

**CONCLUSION**

Based on the results of the discussion above, it can be concluded
that the data on the results of identification of fine motor skills in 20 mentally retarded children in Special Schools (SLB) in North Lombok found that 68% of the children were in the Start Developing (MB) category, which means that the children began to be able to carry out activities. However, with the help of teachers and not being able to be fully independent, 32% of mentally retarded children are in the Developing according to Expectations (BSH) category, which means that children are able to carry out activities independently, without the need for teacher assistance. Under these conditions, it is necessary to provide a strategy or method that can help mentally retarded children improve fine motor skills effectively.

**REFERENCE**


