

The Application of Media Sibi and Rainbow Flag to Enhancement Locomotor Motion and Manipulative Motion of Deaf Disability Children on Basketball Material

Harries Tri Mada¹, Dwi Cahyo Kartiko¹, Gigih Siantoro¹

^{1,2,3} Magister of Physical Education, Universitas Negeri Surabaya, Surabaya, Indonesia

harries.tr@gmail.com

Abstract

Everyone is entitled to education because education serves to improve the quality of a person's life. Education for deaf disability children, also needs to get focused of attention according to the limitations basic motor motion. The application of adaptive application learning media is used to improve motor skills of the disabled child's motor disability. The purpose of this research is to find out about: (1) the impact of application of media SIBI can help locomotor motion of deaf disability children, (2) the impact of media SIBI application to help manipulative motion of deaf disability children, (3) the impact of application of rainbow flag to help locomotor motion of deaf disability children, (4) the impact of the application of rainbow flags to help manipulative motion deaf disability children, (5) the magnitude of the increase in locomotor activity of deaf disability children using the application of media SIBI and rainbow flag, (6) the increase in manipulative activity of deaf disability children using the application of media SIBI and rainbow flags. This research is quantitative with quasi-experimental. The research design uses matching-only design, data analysis using Paired-Sampels T Test. The process of data collection is done with a pretest and posttest weight using the instrument of adapted motor skills, and validated by the expert to retrieve data locomotor motion and manipulative motion. The result of data analysis using SPSS version 20 on average data between pretest and posttest each group, namely: (a) Locomotor: media SIBI group increased 10,10%, sig. = 0.003 and the rainbow flag group increased 13.40%, sig. = 0.001. (b) Manipulative: media SIBI group increased by 10.10%, sig. = 0.063 and the rainbow flag group increased 13%, sig. = 0.007. Is increasing the influence of media SIBI and rainbow on locomotor motion 11,75% while in motion manipulative 11,55%. The result of the the study, that the application of media SIBI to improve locomotor motion not for manipulatif motion behind rainbow flag to improve of locomotor motion and manipulative deaf disability children.

Keywords

media education; deaf disability; locomotor motion; manipulative



I. Introduction

Physical education is basically a process education physical activity is designed to improve the students health condition. But a child with special needs disabled athletes could not receive daily education normally given .Therefore need education services specifically .Education can be obtained a child with special needs disabled athletes formally through foundation or outside regular school (slb) .Each has a slb education curriculum in rehab, trains and educate which included physical education programs for children with special needs disabled athletes (physical education adaptive).

The base of the special education and specialized care also mentioned in act no 20 years 2003 the national education system the third article about function and national education targets and the fifth article paragraph 1 , 2 , 3 , and 4 about the same rights education irrespective of the physical condition , emotional , mental , intelligence and geography and in chapter 32 paragraph 1 and 2 , about special education and specialized care . In Regulation of

the Minister of National Education number 34 years 2006 on guidance achievement students have the potential to intelligence or special talent and Regulation of the Minister of National Education number 70 years 2009 about education inclusive for students had. it has got the potential intelligence and or special talent.

Regarding the issue of the delivery of instruction or information children with special needs disabled athletes (disability hearing impaired) is required a proper media. Sibi stands for the gesture indonesian system. Sibi be a pleasant that helps communication fellow deaf or deaf communication with the broad. Its existence is order for a systematic set of the, hand, and various motion to symbolize vocabulary indonesian of video. The media sibi in learning physical education aimed to build cognitive students to have a skill motion picture who will be placed by teachers. When cognitive in students have embedded to help understanding will be applied in a skill motion in the field, learning model physical education adaptive through the educational rainbow flags is a modification learning and developed by inserting element health condition that is using flags colored any color signified a certain movement. This media is these cues to attract students do a movement that instructed by teachers.

Discern exposure to the regulation can attributed by the presence of the existing problems in SDLB B pertiwi city Mojokerto areas . One of the problems which there is less competence physical educator in the level of creativity in the development of innovative and kind of classroom , causing surfeit or fixed upon the introduction of duty of motion in a learning process . The matter often causes the weaknesses of understanding instruction and physical activity given . A method of learning a bad can affect their interests and their interest in participating in students learning . In order to get good feedback from students , physical education teachers adaptive must use a method of teaching who said because hearing a great deal to do the motivation of learning which he given to students.

II. Research Methods

The research was conducted at Primary School Extraordinary B Pertiwi, Mojokerto for 6 weeks with frequency 1 times a week. Participants of this study were 8 students of grade 6. There were 2 groups with 4 participants in each group using matching system. Group 1 was given SIBI media as a learning medium for the material to be delivered and group 2 was given a rainbow flag as a learning medium so that the material could be delivered. This research uses quantitative research with Quasi Experimental Method. The design of the study only use the appropriate design, and data analysis using paired t-test dependent, while to know the magnitude of each treatment influence dilanjutkan with . The process of collecting data was conducted by appraisal with a motor skills instrument adapted according to the needs of (Prof. Dr. Bandi Delphie M.A. S.E., 2009: 344-247) and validated to obtain data on locomotor movement and manipulative motion, during pretest and posttest.

III. Discussion

Paired Samples Test test results dependent on SPSS 20 series program, as an effort to see which independent variables have a significant effect on the increase of dependent variable. The result from table 1 of SIBI group shows pair 3 value of Sig 2-tailed 0.063 means that there is no significant influence of SIBI media usage on manipulative motion of disabled children.

Table 1. Paired Samples Test

		Paired Differences					t	df	Sig. (2-tailed)
		Mean	Std. Deviation	Std. Error Mean	95% Confidence Interval of the Difference				
					Lower	Upper			
Pair 1	POSTSIBIL - PRESIBIL	-2,500	,577	,289	1,581	3,419	8,668	3	,003
Pair 2	POSTRFL - PRERFL	3,250	,500	,250	2,454	4,046	13,000	3	,001
Pair 3	POSTSIGIM - PRESIGIM	-2,500	1,732	,866	-,296	5,296	2,887	3	,063
Pair 4	POSTRFIM - PRERFIM	3,250	,957	,479	1,727	4,773	6,789	3	,007

Table 2. Descriptive Test Results of Basic Motion Capability Lokomotor SIBI Group

Description	<i>Pre Test</i> Locomotor	<i>Post Test</i> Locomotor	Different
Minimum Value	21	24	3
Maksimum Value	29	31	3
Average	24,75	27,25	2,5
Standard Deviation	3,304	2,872	0,432
Variance	10,917	8,250	2,667
% Increase	$\frac{Md}{Mpre} \times 100\%$	$\frac{2,5}{24,75} \times 100\% = 10,10\%$	

Table 3. Descriptive Test Result of Basic Motion Capability Lokomotor Group Rainbow flag

Description	<i>Pre Test</i> Locomotor	<i>Post Test</i> Locomotor	Different
Minimum Value	24	27	3
Maksimum Value	25	28	3
Average	24,25	27,50	3,25
Standard Deviation	0,500	0,577	0,077
Variance	0,250	0,333	0,083
% Increase	$\frac{Md}{Mpre} \times 100\%$	$\frac{3,25}{24,25} \times 100\% = 13,40\%$	

Tabel 4. Descriptive Result of Manipulative Basic Motion Capability Test of SIBI Group

Description	<i>Pre Test</i> Manipulative	<i>Post Test</i> Manipulative	Different
Minimum Value	22	22	0
Maksimum Value	28	32	4
Average	24,75	27,25	2,5
Standard Deviation	3,202	4,573	1,371
Variance	10,250	20,917	10,667
% Increase	$\frac{Md}{Mpre} \times 100\%$	$\frac{2,5}{24,75} \times 100\% = 10,10\%$	

Table 5. Descriptive Test Result of Manipulative Basic Motion Capability of Rainbow flag group

Description	<i>Pre Test</i> Manipulative	<i>Post Test</i> Manipulative	Different
Minimum Value	23	27	4
Maksimum Value	27	30	2
Average	25,00	28,25	3,25
Standard Deviation	2,309	1,500	0,809
Variance	5,333	2,250	3,083
% Increase	$\frac{Md}{Mpre} \times 100\% = \frac{3,25}{25,00} \times 100\% = 13\%$		

Table 2 shows that SIBI learning media with bolabasket material can improve locomotor base motion capability in sixth grade students of Primary School Extraordinary of 10.10%. Table 3 shows that the provision of rainbow flags with bolabasket material can provide an increase in locomotor base motion capability in sixth grade students of Primary School Extraordinary at 13.40%. Table 4 can be seen that giving SIBI learning media with bolabasket material can provide an increase in basic manipulative motion capability in sixth grade students of Primary School Extraordinary of 10.10%. While table 5 can be seen giving rainbow flag with bolabasket material can give improvement of basic motion manipulative ability to sixth graders of Primary School Extraordinary of 13%.

So, from the dependent test results between the dependent variable groups it can be concluded that the SIBI and rainbow flags provide improved locomotor motion and manipulative motion but no increase in SIBI media against manipulative motion.

4.1 Increased the capacity locomotor motion basic through the application of the media SIBI on child disability hearing impaired the sixth grade in SDLB

Based on the research there are significant influence in the field of the application of learning use SIBI media in locomotor basic motion .This statement with the results of testing in an empirical manner by means of t test paired t-test . As a capability of motion on the rest of the level of age to increase if it is conducted through a learning process .The results of the analysis different test the average between pretest and posttest indicated basic increase of motion through the application of locomotor media SIBI with a value of $p = 0,003 < \alpha = 0.05$.

Based on analysis that has been made, shows that there is a capacity of locomotor motion to the disability hearing impaired the sixth grade primary school exceptional applied for learning use SIBI media in primary school remarkable B pertiwi Mojokerto city.This was caused in line with the media and matter learning applied exactly with character students who have shortage of the senses hearing or disability hearing impaired that can support in reaching the purpose of learning.Where media sibi used to call attention to see the penyampaikan matter learning that the child is likely to perform a described in a media SIBI be repeated so has movement locomotor increased.

4.2 Increased the capacity motion through the application of basic manipulative media sibi on child with a disability hearing the sixth grade in SDLB

The mean difference of the result test analysis between pretest and posttest show that the data obtained in manipulative base motion $p = 0,063 < \alpha = 0.05$

Through the application of media sibi .The purpose of the application is to help a teacher to communicate with the students in order to increase learning basic motion locomotor and manipulative . Based on the results of the analysis that have been acquired , can show that there is not an increase in basic manipulative capability of motion with a disability hearing the sixth grade primary school learning use a remarkable resemblance to implementing media sibi in primary school remarkable b pertiwi city Mojokerto areas. The result is based on less concerned students for learning matter in a media sibi so in practice students less whether perform a throw and get the ball. Media and matter learning applied exactly with character of students who have deficient in sense of hearing that can support in reaching the purpose of learning but there is a shortage of if the little regard there is no to increase motion manipulative skills.

4.3 Increased the capacity motion locomotor through the application of basic learning use rainbow flag on child with a disability hearing the sixth grade in SDLB

The research result obtained there are significant influence of the application of learning use rainbow flag in locomotor basic motion .This statement with the results of testing in an empirical manner by means of t test paired t-test .The results of the analysis different test the average between pretest and posttest show $p = 0,001 < \alpha = 0.05$. So there is the increased through the application of basic motion locomotor learning use rainbow flag with a disability hearing the sixth grade primary school remarkable b pertiwi city Mojokerto areas . Because this was due to the rainbow flag is a flag colors, made in order to communicate and attracting attention students. In every single color is having a meaning certain motion . Rainbow flag used to aid given the lectures learning for a hearing so that such a child with a disability are encouraged to perform a movement in a repetitive manner so that skill locomotor motion students increased.

4.4 Increased the capacity basic motion manipulative through the application of learning use rainbow flag on child disability hearing impaired the sixth grade in SDLB

Based on the results there are significant influence of the application of learning use rainbow flag on basic motion is manipulative .This statement with the results of testing in an empirical manner by means of t test paired t-test .The results of the analysis different test the average between pretest and posttest show $p = 0,007 < \alpha = 0.05$. Based on the results of the analysis that have been acquired , can show that there is a basic manipulative increased capacity motion with a disability hearing the sixth grade primary school remarkable b pertiwi city Mojokerto areas .

It occurred due to children interested in watching rainbow flags any color it has a motion specif to to convey matter learning or to do a movement and the encouraged to perform a movement described use rainbow the repeatedly so as to have capability of motion manipulative that rises. All that caused with the media and matter learning applied exactly with character students who have shortage of the senses audience that can support in reaching the purpose of learning.

4.5 An increased of the movement locomotor basic through the application of learning use sibi rainbow media and flag

Based on the results of data or the number of magnitudes the average increase of motion through the application of locomotor learning use media sibi as much as 10,10%. Whereas the number of magnitudes average increase of motion locomotor through the

application of learning rainbow the use as much as 13,40%. So the average off the increase of motion through the application of the results of locomotor learning use sibi media and rainbow flag as much as 11,75%. After the results of the analysis obtained this increase occurred because the media used will attract the interest of the child to pay attention to movement and *memperaktekan* and his word exactly the selection of media to the character of lack of students with disability hearing so that can support in the achievements of the purpose of learning the improvement of locomotor motion skills students.

4.6 An increased of the capability of motion through the application of basic manipulative learning use sibi media and rainbow flag

The results of the analysis of data obtained there is the amount of the average increase of motion through the application of manipulative learning use sibi media as much as 10,10%. The average number of the increase of motion through the application of manipulative learning use rainbow flag by 13 % .So the average the size of the increase of motion through the application of the results of manipulative learning use sibi media and rainbow flag as much as 11,55%. This was due to the matter with the media and of learning which applied right to the character of students will have to the senses district hearing so that can support the purpose of learning in the achievements of improving the skill motion manipulative students.

V. Conclusion

It can be concluded that sibi media can increase locomotor motion but not on motion manipulative while rainbow flag can increase locomotor motion and motion manipulative material through basketball .

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