



USING TORSO MEDIA TO IMPROVE STUDENT'S UNDERSTANDING OF HUMAN BODY ORGAN'S STRUCTURE AND FUNCTIONS IN CLASS 4 SDN 21 PULUBALA, GORONTALO REGENCY

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Article history:	Abstract:
Received: 7 th September 2021 Accepted: 7 th October 2021 Published: 25 th November 2021	Torso media is one of the learning media used in science lessons. torso can describe organs that can be studied from actual human organs so that they are realized in the form of learning media. The purpose of this research is to increase students' understanding of human organs and their functions. This research was conducted at SDN 21 Pulubala, Pulubala District, Gorontalo Regency with the method used was the experimental method. based on this, it can be stated that the experimental method is a quantitative research method used to determine the effect of the independent variable (treatment) on the dependent variable (outcome) under controlled conditions. student activities, and will also explain the understanding of students that have been collected by researchers during conducting research. The first measured aspect is the achievement of teacher and student activities.

Keywords: Torso Media, Understanding, Structure of Human Organs and their Functions

INTRODUCTION

Grade 4 SD is the initial grade at the high-grade stage in elementary school. This is a serious concern of the teacher to introduce the various creations of Allah SWT in real to be used by every human being. The learning process in the classroom should encourage students to accept new knowledge about facts. Learning activities in Grade 4 Elementary School are not only taught by providing material in the abstract but by using good and concrete teaching aids. Classroom learning plays an important role in achieving high quality learning. Because learning in the classroom is the most important effort to achieve the expected quality of education.

The function of the teacher is very important to be a measure of student success. In accordance with the role, duties and functions of the teacher is to manage learning in the classroom as well as possible. In this case, the teacher is required to always improve the professionalism of his teacher, which includes being willing and able to correct any deficiencies that arise in the learning process in the classroom. With the improvement of the learning system by the teacher himself, automatically learning in the classroom will be more optimal and liked by students.

Learning media is a tool to support the learning process both created by the teacher and created by others as a tool in the success of learning in the classroom. Even though they have media, teachers are also required to master the use of media so that the delivery of learning objectives using the media can be carried out as well as possible. So that learning in class can be enjoyed by students and the learning atmosphere can take place as well as possible to achieve the goals that students want to master in class.

Learning Natural Sciences is one of the subjects that learn about nature and the life of living things on earth. Natural Science material is very broad so that from the breadth of this material there is a lot that needs to be taught to students. Learning material in natural sciences has been divided into several aspects which include Physics which studies the earth and its structure and also Biology which studies living things and plants.

Living things consist of animals, plants and humans, each of which has an important function in life. Humans as caliphs on earth who are equipped with reason and thoughts also have their own roles and functions for the sustainability of life on earth. From the organ system of the human body created by Allah SWT, there are some parts of the body organs that are not visible to the eye so that learning media is needed to be able to learn it.

Grade 4 Elementary School is a concrete operational stage. According to Piaget, children at the age of 7 years will enter the concrete operational stage, where children are able to think rationally, such as reasoning to solve a concrete (actual) problem. However, in any case their thinking ability is still limited to real situations. so that at this stage students receive learning by using learning media that can provide concrete examples of the learning objectives to be achieved.

Torso media is one of the learning media used in science lessons. torso can describe organs that can be studied from actual human organs so that they are realized in the form of learning media. The learning carried out by the teacher in Class 4 of SDN 21 Pulubala has not shown satisfactory results so that special strategies are needed to improve students' understanding, especially on parts of the human body. so that in this study the authors describe the use of torso media to improve students' understanding of the material structure of human organs and their functions in Class 4 SDN 21 Pulubala, Gorontalo Regency.

RESEARCH METHOD

This research was carried out at SDN 21 Pulubala, Pulubala District, Gorontalo Regency with the method used was the experimental method. Based on this, it can be stated that the experimental method is a quantitative research method used to determine the effect of the independent variable (treatment) on the dependent variable (outcome) under controlled conditions. Controlled conditions so that no other variables other than treatment affect the results. In order for conditions to be controlled, this experimental study used a control group and this experimental research was carried out in the laboratory. Sugiyono (2019).

In this research design, it begins by conducting an initial test of the structure of the human body with its functions in the form of a pre test. Students are asked to name 3 types of organs and their functions. This pre test was conducted to test students' understanding of the material of human organs and their functions, whether students really understood them after attending the lesson and before conducting research. The data collection tool is carried out using a questionnaire to measure how far the students' understanding of the human organs and their functions is.

DISCUSSION

Learning Media

Media comes from Latin and is the plural form of the word medium which literally means intermediary or introduction. So it can be understood that "the media is an intermediary or messenger from the sender to the recipient of the message". Furthermore, the definition of media according to experts will be described in which it provides media boundaries of different opinions, but the direction and purpose are the same, namely:

Learning media according to Latuheru (1994: 14), are "materials, tools, or techniques used in teaching and learning activities with the intention that the process of educational communication interaction between teachers and students can take place effectively and efficiently"

According to Arsyad, (2016: 4) implicitly "learning media includes tools that are physically used to convey the content of the material". While Gagne 'Briggs (1975: 4) says that learning media includes tools that are physically used to convey the content of teaching materials, which consist of, among others, books, tape recorders, video cameras, slides, and so on. From some of the opinions above, it can be concluded that learning media is an intermediary for learning which includes various equipment used in learning so that the process of communication between teachers and students physically is to convey the learning objectives to be achieved.

Torso as a Learning Media.

Torso is a tool in the form of a statue that resembles a human in which there are human organs that are used as learning media for students. because the human organs cannot be seen directly by the eye, so with the torso media, students can understand the human organs according to the original. The torso media is designed in such a way as to make it easier for teachers to convey the learning objectives that are conveyed to students in which there are human organs that can be separated from each part.

According to the Big Indonesian Dictionary (1987:237) Torso is defined as: "a statue; human body models; human torso without arms and legs; used as a teaching aid in the learning process; model of the human body for the purpose of studying the field of health, or other educational level units. Meanwhile, according to Sudjana and Rivai (2007:163) the torso is also defined as: The stacking model is an arrangement model of several complete objects, or at least an important part of the object. It was further revealed that the stacking model of the human body (torso) gave the students the best observations regarding the location and size of the actual body organs.

Torso helps students in two ways, namely: First; the teacher can show the position of each body organ, at the time of teaching. Second; To do this the students spread each part of the torso on the table, and each student takes turns to name an organ, and put it back in its actual position on the torso. Then students explain briefly the functions of these organs. Other students supervise correct some mistakes made, or add other important information.

Media Torso Advantages and Disadvantages

According to Priyanto (2007), the torso as a medium used in the learning process in the classroom has several advantages and disadvantages, including: The advantages of the Torso include being able to be used on all elements of an educational unit, providing examples of body organs like the original, easy to use, not requiring electricity. in its use, it does not need a large place while the drawbacks are that the procurement of torso media uses a fairly expensive cost, the appearance of the torso is only two-dimensional, the teacher removes one by one the components of the organs in it in class learning, the time is long enough to explain the organs and parts of the body. function.

The benefits of Torso media in the teaching and learning process

Adri, (2008) suggests the benefits of learning media in the student learning process, namely:

1. Learning will attract more students' attention so that it can foster learning motivation.
2. Lesson materials will have a clearer meaning so that they can be better understood by students and allow them to

master and achieve learning objectives.

3. Teaching methods will be more varied, not merely verbal communication through the words of the teacher, so that students do not get bored and the teacher does not run out of energy, especially if the teacher teaches at every lesson.
4. Students can do more learning activities because they do not only listen to the teacher's description, but also other activities such as observing and others

Learning Materials for the Structure of Human Organs

Human organs are a unit of various tissues that perform certain functions. Each organ of the body has a specific function to support the process of human life. In science learning, the torso media is needed in transferring knowledge about human organs that cannot be seen directly to be understood by students as a learning experience that students can actually accept.



Human organs are a collection of various tissues that perform certain functions. Each device has a specific function to support human life. In the human body there are various types of organs such as:

1. The stomach functions as acid and enzymes, the stomach breaks down food into small particles. During this process, the stomach will move reflexively, to mix food with acids and enzymes. This movement is called peristalsis
2. Lungs Its function is to exchange oxygen from the air with carbon dioxide from the blood. If the function of the lungs is disturbed, then the health of the human body can be affected as a whole.
3. The liver is the largest gland in the body, weighing about 1.25 kg. Located under the ribs, in the upper right part of the abdomen, if there is significant damage to the liver it can cause fatal problems. The liver has many functions and the production of bile, is one of the most important. Bile is produced by the liver, stored in the gallbladder and released as needed
4. The heart is a hollow muscular organ located between the lungs. Its job is to pump blood throughout the body. The heart is divided into four chambers: two upper and two lower. The upper chamber is called the atrium. They are also right atrium and left atrium. At the bottom is a chamber called the ventricle, where the left ventricle and the right ventricle. (<https://www.halodoc.com>)

RESEARCH RESULT

In this study, the results of the data obtained are data on student understanding from observations of teacher activities, student activities, and will also describe student understandings that have been collected by researchers during conducting research. The first measured aspect is the achievement of teacher and student activities. Aspects observed in teacher activities are: 1) preparing tools and materials for learning; 2) motivate students to be ready and active in learning; 3) explore students' knowledge related to the material; 4) convey the learning objectives to be achieved; 5) convey the activities that will be carried out in the teaching and learning process; 6) conduct demonstrations using the media; 7) guide students to form groups of 4 members; 8) monitoring student work in group discussions; 9) ask each group representative to present the results of their discussion; 10) guiding students to conclude the learning outcomes that have been implemented; 11) provide evaluation questions in the form of LP to check students' understanding; 12) give awards to the best groups or students.

CONCLUSION

From the results of the discussion, it can be concluded that the use of torso media can improve students' understanding of the structure of human organs and their functions in grade 4 SDN 21 Pulubala.

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