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Artikel

ReproSy Interactive Website Learning Media Using Behavioristic Approach as Continuing Education

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ABSTRACT

Learning materials for the reproductive system reproductive system includes aspects of reproductive health, puberty, and the importance of maintaining health, in addition to an understanding of the functions of the reproductive organs. Maintaining health, in addition to an understanding of the functions of the reproductive organs. Media technology-based learning media, such as interactive websites, can present present materials that are more dynamic, visual, and interactive, so that students can learn difficult or sensitive topics more comfortably. Students can learn difficult or sensitive topics more comfortably. This website is able to provide a more interactive, informative, and fun learning experience. Interactive, informative, and fun. This research uses a descriptive qualitative method. Descriptive qualitative method, the research procedure used a questionnaire with data analysis of the Borg & Gall model until the validation stage. Validation assessment tested based on five aspects, namely material, language suitability, design, learning, and technology. The validity results were calculated in the form of a percentage and analyzed descriptively. The results showed that the validity of the material and technology reached 100% with a very good category, design and learning 93.75% with a very good category, and the suitability of the language suitability 90% with a very good category. The validity results show the highest percentage is material, technology, design, and learning, while the lowest percentage is language compatibility. while the lowest percentage is language suitability. This product can be used with minor improvements. The use of interactive website "*ReproSy*" to educate learners about reproductive health through a behavioristic behavioristic approach is in line with.

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INTRODUCTION

Education is an academic process that aims to strengthen social, moral, cultural and religious values. The purpose of education is to broaden the understanding of individuals, so that they can compete in today's digital era. Therefore, technological advancement is closely related to education (Alami 2020). The transformation of digital technology has significantly changed the world of education, introducing various interactive learning media that support the learning process. The rapid development of technology gives rise to new learning methods and requires rapid adaptation. In this modern era, the application of technology in learning has become a necessity (Rijal and Jaya, 2020).

One of the topics taught at the junior high school/middle school level is the reproductive system. This material is very important for students to learn. In learning the reproductive system, students will learn the organs of the reproductive system, their functions, the process of sex cell formation (gametogenesis), hormones that affect the reproductive system, and the menstrual cycle. Each part of this material has different information and difficulty levels. To understand the entire concept of the human reproductive system, appropriate media is needed so that students can easily grasp the lesson (Audia, et al. 2021). However, basically some of the concepts contained in biology are abstract concepts (cannot be seen directly either the size or the biological process).

In the learning process, media is one important component that functions as a support in teaching and learning activities. Attractively designed media can stimulate students' interest in learning, with the main objective of facilitating understanding of the material presented by the teacher. In general, learning media includes graphic, photographic, or electronic tools that can capture, process, and redisplay visual or verbal information. Especially in the material about the human reproductive system, the media used by teachers are often Power Point slides with unclear images. This has an impact on the low interest of students to participate in learning optimally (Eliana et al., 2022).

The use of websites as learning media has great potential to increase learner engagement and teaching effectiveness (Tuti et al., 2020). Website is defined as a collection of pages that present digital information, in the form of text, images, animations, sounds, and videos, which can be accessed via the internet by anyone around the world. The selection of websites as learning media is based on the ease of accessing information via the internet, both through portable hardware (personal computers) and movable hardware (laptops, PDAs, or cellphones), and can be done anywhere, anytime, and by anyone, including students (Kurniawan, 2014).

The approach used in this research is the behavioristic approach. The behavioristic approach is the establishment of a relationship between stimulus and response. The application that can be seen in the behavioristic approach in the development of the ReproSy website is able to develop a stimulus in the form of sample questions, exercises and quizzes. This approach also applies rewards and punishments given to students to increase student motivation. In the ReproSy website, giving certificates at the end of learning is intended to increase student motivation in learning (Putra, Dkk. 2017).

From these problems, researchers innovate to make interesting media, namely the development of ReproSy website learning media that is different from the supporting learning media in reproductive system material that offers a good learning method using a behavioristic approach by linking the reaward and panishmen given to students. With this website can help students in visualizing the reproductive system in humans which is sometimes difficult to imagine. Learning media that will be used need to be prepared efficiently and effectively (Almasri, 2022). Useful for stimulating the attraction, attraction, thinking ability, and skills of students who can encourage learning activities. One alternative solution that is relevant today is to utilize digital technology to provide information widely and communicate which is the basis for the development of learning media. (Wang, 2022). So several questions arise such as how is the urgency of ReproSy interactive website learning media with a behavioristic approach in improving students' understanding? and how is the impact of using ReproSy learning media in increasing students' attraction and attention to reproductive system material? (Sentejo, 2022).

This study aims to answer the above questions by evaluating the urgency and impact of using ReproSy website as a learning media in human reproductive system material. By understanding the extent to which this media can improve learners' attractiveness, understanding, and critical thinking skills, it is hoped that the development of technology-based learning media such as ReproSy can be the first step in improving the quality of sustainable education that is effective and relevant to the needs of the current generation.

METHODS

This study used a qualitative descriptive method with several steps. First, data collection through product selection and literature review, which showed many students had difficulty understanding the abstract reproductive system. Second, planning to adjust product objectives to meet the identified needs, namely interesting learning media to increase student motivation. Third, the development of the initial version of the product in the form of an

interactive website with a behavioristic approach and educational games to facilitate student understanding, as well as the preparation of materials and evaluation tools. Fourth, validation was carried out by creating a website on Google Sites, which was validated through a questionnaire and calculated according to the formula.

The data collection technique used is an indirect communication technique using a 5-scale product quality assessment questionnaire sheet instrument for material experts, media experts, and teachers as well as a Guttman scale questionnaire for student responses. The criteria for each rating scale used are as follows:

Tebel 1: Rating scale criteria

Criteria	Score
Very good	4
Good	3
Fair	2
Insufficient	1

The data analysis technique in the development of Website-based learning media using google sites consists of analyzing data from expert validation questionnaires. Then processed in accordance with research and development procedures. The formula used in the analysis of expert validation data is as follows:

$$v - au = \frac{Tse}{Tsh} \times 100\%$$

Description:

V-au : Expert Validation (Percentage Value)

Tse : Total empirical score obtained based on expert judgment,

Tsh : Total expected maximum score

RESULTS AND DISCUSSION

The validation of the ReproSy Interactive Website is assessed based on several criteria, namely Material Criteria, Technology, Design, Teaching and Language suitability, so that the average percentage value of validation shown in table 2 is obtained.

Tabel 2. Validation Results of ReproSy Interactive Website Learning Media Using Behavioristic Approach as Continuing Education

No.	Assesment Aspect	Score (%)	Category
1.	Material	100	Very good
2.	Technology	100	Very good
3.	Design	93,75	Very good
4.	Learning	93,75	Very good
5.	Language Appropriateness	90	Very good

Based on table 2, the validation results of the material and technology criteria of 100% are categorized as very good. The validation results of the design and learning criteria were 93.75%, and the design criteria of 90% were categorized as very good. All eight validation results are categorized as very feasible because the validation value is in the 77.6-100% interval. Based on the percentage value in table 2, the highest value is obtained from the aspects of material, trekology and design. The lowest data is obtained from Learning and language suitability. Validators provided criticism and suggestions related to the development of the ReproSy Interactive Website which are presented in table 3:

Tabel 3. Validator criticisms and suggestions

Aspect	**Kritik dan Saran**
Material	1. In the reproductive system in women, the parts can be clarified again. 2. The function of the fallopian tubes is clarified again. 3. In the case of cysts, it is refluxed 4. Ogenesis and sperm must be balanced.
Language suitability	1. Learning objectives are made A, B, C, D 2. In the material on prevention efforts, the choice of language is given more attention

The interactive website “ReproSy” is a digital learning media designed to provide education about the reproductive system using a behavioristic approach. The results of the validation of the ReproSy Interactive Website from the material aspect received the highest score, in the behavioristic approach, learning focuses on changes in behavior that appear through a series of repetitions and stimulus-response provision (Catania, 2003). This aims to improve student understanding through repeated practice and strengthen student skills in

identifying and understanding the reproductive system (Abidin, 2022). Interactive website learning media allows learners to learn independently with easily accessible content, accompanied by various interactive features such as quizzes, simulations, and animations. The interactive design of ReproSy supports continuous learning as students can access the materials anytime and anywhere, supporting the repetition needed to internalize important concepts. This structured and informative material aims to help students develop a thorough and in-depth understanding of the reproductive system. Well-organized material and interactive media such as ReproSy can have various positive impacts, including the interactive website, students are more motivated to learn because learning is no longer monotonous. Active interactions such as filling out quizzes or viewing reproductive simulations help deepen students' understanding in real time, Behavioristic approach that relies on repetition (reinforcement) is very useful in teaching material that requires memorization and deep understanding such as the reproductive system. With an interactive website, students can repeat the material until they understand, learners have access to learning materials without time and place restrictions, which encourages self-learning. This supports the principle of continuing education, where students have full control to deepen knowledge according to their needs and using interactive website-based learning media, students not only learn about the reproductive system but also develop skills using technology in learning.

Learning technology must be well designed, based on the results of the validation of the ReproSy Interactive Website from the technology aspect, it gets the highest score because it is easy to access by website users so that it can be used to find information presented on the website. The use of quality videos and images on the Reprosy website can provide assistance to users, especially students, to understand the material presented through quality images and videos (Wahyuni et al., 2022). The integration of the Reprosy website with online features in the form of Educaplay games and liveworksheet can create innovative learning that supports teaching and learning activities. The integration of educaplay and liveworksheet online features with the Reprosy website makes learning more fun for students and can motivate students to learn (Dianita et al., 2024). The ease of navigation of the Learning Substance website can provide website users with assistance in navigating the website. Website users are given information in the form of navigation buttons between pages so that it can make it easier to find information on the website (Sulistiani, 2018). Good technology can have several positive impacts on the learning process, including being able to increase learner participation, Interactive websites provide interesting learning experiences that increase learner motivation

to learn more. With gamification elements, such as quizzes and live assessments, students feel more challenged and excited to learn, Behavioristic approach with repetition of material can improve students' memory. With interactive technology, students can repeat material or take quizzes until they fully understand the concept as well as learners anywhere and anytime, thus creating a flexible and independent learning environment. This is very important in supporting continuing education.

Good design in learning media is the design of content and media displays designed to help students learn effectively and efficiently. Based on the results of the validation of the ReproSy Interactive Website from the design aspect, it gets the highest score because good design in interactive learning websites such as ReproSy has several positive impacts on learning, including, increasing student interest and engagement, attractive design with interactive elements helps motivate students to learn more deeply. This active engagement promotes better understanding of the material, Design with visualization elements and repetition of quizzes as per behavioristic approach can strengthen students' understanding and long-term retention of the material learned, Responsive and accessible design helps students manage their learning time independently. This enables continuous learning that is independent of time and space.

Based on the results of the validation of the ReproSy Interactive Website from the aspect of learning, it gets a low score because interactive website-based learning “ReproSy” with a behavioristic approach is a method that focuses on changing learning behavior through reinforcement and reinforcement. This media utilizes website technology to present material about the reproductive system in a sustainable manner. The behavioristic approach is based on the theory that learning can be reinforced by repeated practice and consistent feedback. In the context of ReproSy, this approach helps students internalize concepts by repeating material and exercises until optimal understanding is achieved. Interactive websites such as ReproSy provide a variety of features that make it easier for students to understand the material well, such as quizzes, animations, videos, and interactive modules that encourage student engagement in the learning process. Complex material such as the reproductive system should be broken down into several modules, starting from basic anatomical concepts, organ functions, to physiological mechanisms in the reproductive system. This division will make it easier for students to understand and process information gradually, Visualization, such as 3D image reproduction process and animation, helps students to understand abstract or complex material more easily. Visualization also increases the attractiveness of learning, in the behavioristic approach, reinforcement is very important. Quizzes and exercises at the end of each module

can be used to gauge student understanding and provide immediate feedback. With positive reinforcement, students are motivated to keep learning. With a behavioristic approach that involves repetition, students can more easily remember the material that has been learned. This is beneficial for continuous learning, where students can pass on the material until they fully understand. Each Learner's activity on the website can be analyzed to provide personalized feedback. With the utilization of analysis data, materials can be adjusted according to the needs of students, and weaknesses in understanding can be better identified. Based on the results of the validation of the ReproSy Interactive Website from the aspect of getting the lowest score because the suitability of language in the context of learning media has not used ABCD sentences, and SPOK refers to use in interactive learning media such as the "ReproSy" website, language suitability helps create a supportive learning environment, The material must be conveyed using simple and clear sentences. Avoid using overly complicated technical terms without adequate explanation. For example, if using terms such as "ovulation", provide a brief explanation of what ovulation is and the processes involved, the language used should be relevant to the students' context. In presenting the material, it is important to maintain consistency in the use of terms and language style. Each learning module should have a clear structure, so that students can follow the train of thought. Impact of Good Language Suitability in Learning Good language suitability in learning can have several positive impacts, including When the language used in learning media is clear and appropriate, students will find it easier to understand the information conveyed. This helps to improve information retention and reduce misunderstanding, Relevant and interesting language can increase students' interest in learning, The use of appropriate language can reduce the anxiety that students may feel towards complex material. It will create a more comfortable and supportive learning environment and good language suitability allows students to learn independently without teacher assistance. Some ways to improve language appropriateness in ReproSy learning media are as follows Before launching the learning module, conduct a pilot test with students to clarify whether the language used is easy to understand. Feedback from students can provide insight into the similarity of the language that has been used and provide a glossary Using Multimedia to Support Language: Combine text with multimedia elements, such as videos and infographics, which can help explain concepts in a more visual way. This will enhance language education in a sustainable way.

CONCLUSIONS

The results showed that the validity of material and technology reached One Hundred Percent with a very good category, design and learning 93.75% with a very good category, and language suitability 90% with a very good category. The validity results show the highest percentage of material, technology, design, and learning while the lowest percentage is language suitability. This product can be used with minor improvements. The use of the interactive website "ReproSy" to educate students about reproductive health through a behavioristic approach is in line with current educational needs.

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