

## Using Wordwall Media to Improve Student Learning Outcomes in English Language Learning for Nursing Students

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### Abstract

This research aims to see the influence of wordwall interactive learning media on improving English learning outcomes for nursing students at Universitas Muhammadiyah Magelang. This research is quantitative research with a pre-experimental design method analyzed using Wilcoxon. D3 nursing students from Universitas Muhammadiyah Magelang are the population of this study. The independent variable in this research is the interactive learning media Wordwall, while the dependent variable is the learning outcomes of nursing students. The research results obtained were Asymp. Sig. (2-tailed) is 0.000 which is smaller by 0.05. This shows that there is a significant difference between the pre-test and post-test scores. So, it can be concluded that the use of interactive learning media Wordwall can improve nursing student learning outcomes.

**Keywords:** *Wordwall, Interactive Learning Media, English Learning, English Learning Outcomes.*

### INTRODUCTION

The process of teaching and studying English in higher education frequently faces challenges in meeting learning objectives. Inadequate learning planning is a common obstacle block, affecting the material and implementation of the learning process, which is sometimes inconsistent with the field of science studied by students (Wibowo, 2021). Insufficient planning frequently leads to less-than-optimal student learning outcomes. Paying attention to students and their requirements will influence the method and direction of learning, allowing teachers to achieve their objectives more effectively and efficiently (Febriyanti, 2018).

According to observations, D3 nursing students' engagement and motivation remain inadequate. This is because students are overburdened with various subjects and are unaware of the importance of learning English. On the other hand, students who believe English is a difficult language since it is not their mother tongue are less likely to want to study. Learning media is one type of channel that instructors can use to transmit knowledge to students. Students can be actively involved in class, and teachers can use their resources to help and encourage students throughout the learning (Wibowo, 2021). The choice of learning media is certainly an important aspect to choose, plan and prepare as media that is interesting and appropriate to the needs of students (Fidian, 2020). Previous studies have shown that the use of learning platforms was used by teachers to improve the students' learning (Mazelin et al., 2022). Based on the previous research, interactive learning media such as Wordwall can increase students' motivation,

engagement and participation (Aziz & Gantara, 2021; Mazelin et al., 2022; Safitri et al., 2022; Tiurmaya Agustina et al., 2022). An increase in students' motivation and engagement will certainly have an effect on improving student learning outcomes (Bariyah & Pierewan, 2017; Fikrie & Ariani, 2019)

Based on the explanation of the problems that have been found, it is very important to carry out research on the interactive learning media Wordwall to improve nursing students' English learning outcomes.

## METHOD

This research was conducted on D3 nursing students at Universitas Muhammadiyah Magelang. The population of this study was 34 students. This research was conducted in one class as a research sample where one class will be used as a control class as well as an experimental class. This type of research was conducted using an experimental design with a one-group pretest-posttest design. An overview of the research design used is presented in Figure 1 as follows:

Table 1. Research Design

Group	Pretest	Treatment	Posttest
-	O1	X	O2

Information:

O1 = Pretest Value (Before Treatment)

O2 = Posttest Value (After Treatment)

X = treatment given; interactive learning media Wordwall

In this design, a pretest was carried out to determine the initial condition of students in the class population. The pretest value symbolized by O1. The next action was conducting a posttest after the treatment carried out. It was done to find out whether there was an influence on students' interest in learning after being given treatment. The results of the posttest are symbolized by O2. Wordwall interactive learning media symbolized by X, as a supporting tool given as treatment to nursing students.

The data analysis began with a normality test used the One-Sample Kolmogorov-Smirnov Test technique. Meanwhile, hypothesis testing used Paired sample T-Test.

## RESULT AND DISCUSSION

The number of students involved in this research was 34 students. In this research the dependent variable was learning outcomes which influenced by the use of interactive learning media Wordwall.

In order to achieve research objectives, data analysis used paired sampling techniques. The results of the normality test using the One-Sample Kolmogorov-Smirnov Test technique as presented in Table 2 shown the Asymp value. Sig. (2-tailed) for pre-test and post-test scores of 0.000. This means that the data was not normally distributed, so data analysis used a non-parametric approach, namely the Wilcoxon test.

Table 2. Normality Test

		Pretest	Posttest
N		34	34
Normal Parameters <sup>a,b</sup>	Mean	4.1471	8.1765
	Std. Deviation	.92548	.90355
Most Extreme Differences	Absolute	.298	.313
	Positive	.298	.313
	Negative	-.202	-.217
Test Statistic		.298	.313
Asymp. Sig. (2-tailed)		.000 <sup>c</sup>	.000 <sup>c</sup>

a. Test distribution is Normal.

b. Calculated from data.

c. Lilliefors Significance Correction.

Based on the rank analysis shown in Table 3, it can be seen that the number of negative ranks and ties is 0. Meanwhile, the positive ranks value is 34 students. This shows that the use of interactive learning media Wordwall is proven to be able to improve student learning outcomes in English learning because all post-test results are better than the pre-test. The average increase in grades was 17.5%.

Tabel 3. Rank Analysis

		N	Mean Rank	Sum of Ranks
Posttest - Pretest	Negative Ranks	0 <sup>a</sup>	.00	.00
	Positive Ranks	34 <sup>b</sup>	17.50	595.00
	Ties	0 <sup>c</sup>		
	Total	34		

a. Posttest < Pretest

b. Posttest > Pretest

c. Posttest = Pretest

Furthermore, the Wilcoxon test was carried out to determine the effectiveness of the independent variable on the dependent variable. It can be seen from Table 4, it was known that the value of Asymp. Sig. (2-tailed) was 0.000 smaller by 0.05. This shown that  $H_a$  was accepted and  $H_0$  was rejected. So, it can be stated that there is a significant difference between student learning scores before and after being given treatment. It can be concluded that the use of interactive learning media Wordwall makes a significant difference in improving nursing students' learning outcomes in English language learning.

Table 4. Wilcoxon Test Results

	Posttest - Pretest
Z	-5.754 <sup>b</sup>
Asymp. Sig. (2-tailed)	.000

a. Wilcoxon Signed Ranks Test

b. Based on negative ranks.

In this study, it was found that there were quite large differences in learning outcomes in English language learning between before and after being given treatment in the form of using the interactive learning media Wordwall. The increase in learning outcomes includes an increase in the results of 34 students.

## CONCLUSION

Based on the scores obtained by students by implementing the Wordwall interactive learning media in accordance with the data presented above, it can be concluded that there is a positive and significant influence on the use of the Wordwall learning media. Based on the results of the rank analysis findings, it can be seen that the number of negative ranks and ties is 0. Meanwhile, the positive ranks value is 34 students. So, it can be said that there was an overall increase after implementing Wordwall Media into English classes for nursing students. Apart from that, supported by the Wilcoxon test, it is known that the value of Asymp. Sig. (2-tailed) of 0.000 which is smaller than 0.05, this explains that there is a significant difference between student learning scores before and after being given treatment. Based on the test results above, it is believed that the Wordwall learning media can be used by educators to improve student learning outcomes in their learning.

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