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Research Article

Perceived Ease of Use, Perceived Usefulness and Perceived of Interest E Rapport Growth and Development of Child

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Abstract

Background: Children are an important asset for a nation, so the education and care provided must be able to improve the quality of children in the future. Child Protection Law no. 23 of 2002 explains that every child has the right to receive growth and development monitoring without exception. Early detection of deviations in growth and development needs to be done, one of which is by using digital-based growth and development e-Reports.

Objective: The e-report product produced can increase efficiency and effectiveness, helping teachers, homeroom teachers, cadres or health workers in managing the SDIDTK program so that valid, practical and effective digital-based e-Report applications can be obtained.

Research methods: The research design for the development of digital-based growth and development e-reports was carried out referring to the development of the 4D model which includes define, design, develop and disseminate.

Results: There is an influence of perceived usefulness on interest in using the child health e- report application

Conclusion: e-Report can be used to check children's health and growth and development at the PAUD unit level to increase the scope of monitoring children's health and SDIDTK

Keywords: e-reports, growth and development

Introduction

Stimulation, Early Detection, and Intervention activities for children's growth and development (SDIDTK) have still not reached the figure targeted by the government, which is 90% in 2010. The performance achievement of the Directorate of Family Health regarding the percentage of toddlers whose growth and development were monitored in 2020 only reached 59.28%. Since 2015, there has been a program called Integrated Posyandu for children, which is integrated with PAUD.^{1,2,3}

Based on this description, the author considers it necessary to synergize the implementation of the SDIDTK program in the PAUD education program by creating growth and development report cards, creating technical guidelines for filling out and using growth and development report cards in accordance with the SDIDTK guidelines of the Indonesian Ministry of Health. So that efforts to stimulate and detect the growth and development of toddlers and preschool children can run optimally. Using this growth and development report card, it is hoped that it can become a policy and standard for implementing DDTK, a synergy between the Ministry of Education & Culture and the Ministry of Health.^{4,5,6}

The growth and development report that will be developed in this research is in the form of a digital-

based e-report (e-report on growth and development application) to make it easier for teachers, midwives, or cadre to communicate the results of checking children's growth and development to parents via electronic media.^{4,7,8}

Objective:

The e-report product can increase efficiency and effectiveness, helping teachers, cadres, or health workers manage the SDIDTK program so that valid, practical, and effective digital- based e-report applications can be obtained.

Research design

The research design for developing digital-based growth and development e-reports referred to developing a 4D model, which includes defining, designing, developing, and disseminating.⁹

Research Population and Sample

The research population is teacher midwives as users of growth and development e-reports. The sample size was determined for a limited trial, based on the opinion of Jatmika that the sample size for the trial was 6-8 people. Based on this, the sample was determined to consist of 33 PAUD teachers, 3 SDIDTK-implementing midwives.^{10,11}

The Research Road Map is as follows:

Time	Development step	Research Focus
First-year	Define, Design, Develop	Development of a digital-based Growth and Development e-report design
Second year	Disseminate	a) The influence of perceived ease and usefulness of growth and development e-reports on interest in using them b) The effect of using growth and development e-reports on parental satisfaction and SDIDTK coverage

Time and place

This research was carried out at the Mangkubumi Community Health Center in Tasikmalaya City in 2023

Results and Discussion

Perception Value of Ease of Use at Child Health E-Report based on each Question

Perceived Ease of Use	AVERAGE $\pm$ SD	CI 95%
Using the e-report application for health and child development is easy to understand	4,18 $\pm$ 0,53	3-5
The use of the child health and growth e-report application is easy to use	4,15 $\pm$ 0,57	3-5
The use of the e-report application for children's health and development is very flexible	4,12 $\pm$ 0,49	3-5
Using the e-report application for children's health and growth and development makes it easy to check	4,45 $\pm$ 0,51	4-5
The use of e-report applications for health and child development makes it easier to implement SDIDTK at the PAUD level	4,58 $\pm$ 0,50	4-5
The login process for the child health and growth e- report application is easy	4,24 $\pm$ 0,51	3-5
The input process for the child health and growth e- report application is easy	4,09 $\pm$ 0,52	3-5
The process of inputting historical data into the child health and growth e-report application is easy	4,21 $\pm$ 0,55	3-5
The process of inputting data from examination results into the e-report application for health and child development is easy	4,18 $\pm$ 0,53	3-5
The process of checking child development on the child health and growth e-report application is easy	4,27 $\pm$ 0,52	3-5

Source: Empirical Research, 2023

Based on the Table above, it can be seen that the average of each question is more than 4 with a standard deviation less than 1 and with a minimum-maximum CI 95% value between 3-5, so it can be concluded that the use of the child health e-report application is easy to use.^{12,13}

Description of the Perceived Usefulness of Children's Health E-Report (SIDDIKA- Children's Health Data and Information System)

An overview of the perceived benefits of using child health e-reports (SIDDIKA Child Health Data and Information System) can be seen in the table below:

Perception Value of the Benefits of Using Child Health E-Reports based on each Question

Perceived Usefulness	AVERAGE $\pm$ SD	CI 95%
The e-report application for children's health growth and development makes it easier for teachers/classroom teachers to monitor children's health	4,52 $\pm$ 0,57	3-5
The e-report application for children's health growth and development makes it easier for schools to run the UKS PAUD program	4,39 $\pm$ 0,50	4-5
The e-report application for health and child development becomes a bridge for collaboration between schools and health workers in routine student examinations	4,48 $\pm$ 0,57	3-5
The e-report application for children's health and growth makes it easier for schools to have a regular student health database	4,36 $\pm$ 0,60	4-5
The e-report application for children's health and growth makes it easier for schools to input student weighing results	4,45 $\pm$ 0,62	4-5
The e-report application for child health and growth makes it easier for schools to send student health data reports to midwives/nutrition officers	4,24 $\pm$ 0,71	2-5
The e-report application for children's health and development adds to the workload of teachers	2,73 $\pm$ 1,13	1-5
The e-report application for children's health and growth and development is quite difficult to implement	2,70 $\pm$ 0,89	1-5
The e-report application for children's health and development makes it easier for parents to access it	4,36 $\pm$ 0,65	3-5
The e-report application for children's health and growth makes it easier for teachers to convey children's health data periodically to students' parents	4,30 $\pm$ 0,59	3-5

Source: Empirical Research, 2023

Based on the Table above, it can be seen that the average of each question is more than 4 except for questions number 7 and 8, which are harmful, with a standard deviation less than 1 and with a minimum-maximum CI 95% value between 3-5, so it can be concluded that using the child health e-report application is beneficial to use.^{14,15,16}

Description of Perceived Interest in Using (Perceived Usefulness) Children's Health E- Report (SIDIKA-Children's Health Data and Information System).

An overview of the perception of interest in using children's health e-reports (SIDIKA Child Health Data and Information System) can be seen in the table below:

Perceived Value of Interest in Using Health E-Reports

Perceived of Interest	AVERAGE $\pm$ SD	CI 95%
Interested in using the e-report application for health and child development at school	4,30 $\pm$ 0,53	3-5
Will use the e-report application for children's health and growth at school to input health data at the start of the school year/new students	4,27 $\pm$ 0,52	3-5
Will use the e-report application for children's health and growth at school periodically every semester to provide children's health information to parents	4,12 $\pm$ 0,60	3-5
Will learn how to input data in the e-report application for health and child development at school	4,18 $\pm$ 0,64	4-5
The e-report application for children's health and growth and development at school is suitable for use in every PAUD agency	4,36 $\pm$ 0,65	4-5
Will invite colleagues to use the e-report application for health and child development at school	3,97 $\pm$ 0,77	1-5
Interested in using the e-report application for children's health and growth and development at school because it adds value to school services for parents of students	4,33 $\pm$ 0,69	3-5
Interested in using the e-report application for children's health and growth and development at school because the students' parents will give a positive response	4,30 $\pm$ 0,73	3-5
Interested in using the e-report application for children's health and growth and development at school because it can monitor student health	4,52 $\pm$ 0,67	3-5
Interested in using the e-report application for children's health and growth and development at school because it is one of the parenting media at school	4,18 $\pm$ 0,59	3-5

Source: Empirical Research, 2023

Based on the table above, it can be seen that the average of each question is more than 4 with a standard deviation of less than 1 and with a minimum-maximum IK 95% value between 3-5 except for question number 6 (about inviting colleagues to use

this application), so it can be concluded that respondents are interested in using the child health e-report application at school.^{17,18,19}

Statistical Results of Respondents Data Distribution on Perception of Ease, Usefulness and Interest in Using Children's Health E-Report (SIDDIKA-Children's Health Data and Information System).

The results of the normality test data on perceptions variables of ease, usefulness, and interest of respondents in using the child health e-report application (SIDDIKA System Data and Information for Child Health), using the Shapiro-Wilk Test of Normality value because the number of respondents was less than 50 people (33 people). For the variable perception of ease in using the application resulted in a significance value of 0.000, a p-value <0.05, meaning it was not normally distributed, for the variable perception of usefulness, a significance value of 0.136 was produced, the p-value > 0.05, meaning it was normally distributed, and the variable perception of interest in using the application produced a significance value of 0.024, p-

value <0.05 means it is not normally distributed.^{20,21}

The data distribution of the three variables above determines the bivariate statistical test using parametric and non-parametric tests. The Spearman statistical test is used for the bivariate test between perceived ease and interest in using the child health e-report application because both are not normally distributed. For the bivariate test between perceived usefulness and Interest in using the children's health e-report application, because one of them does not have a normal distribution, the Spearman statistical test is used.^{11,22, 23}

Bivariate test results between perceived ease and interest in using the child health e- report application.

The results of the Spearman nonparametric bivariate test between perceived ease and interest in using the child health e-report application can be seen in the table below

Results of Spearman's Nonparametric Analysis of Perception of Ease and Interest in Using the E-Report Application

	Perceived of Interest
Perceived of Ease	$r = 0,684$ $p < 0,000$ $n = 33$

Source: Empirical Research, 2023

Based on the table above, p value of 0.000 is obtained, which shows that the correlation between perceived ease score and perceived interest in using the children's health e-report application is significant, meaning that there is an influence of perceived ease of use and interest in using the children's health e-report application. The Spearman correlation value of 0.684 shows a positive correlation with a strong strength of influence.^{24,25,26}

Bivariate test results between perceived usefulness and interest in using the child health e-report application.

The results of the nonparametric Spearman bivariate test between perceived usefulness and interest in using the child health e-report application can be seen in the table below.

Results of Spearman's Nonparametric Analysis of Perceived Usefulness and Interest in Using the E-Report Application

	Perceived of Interest
Perceived Usefulness	$r = 0,626$ $p < 0,000$ $n = 33$

Source: Empirical Research, 2023

Based on the table above, p value of 0.000 was obtained, which shows that the correlation between the perceived usefulness score and the perceived interest in using the children's health e-report application is significant, there is an influence between the perceived usefulness and interest in using the children's health e-report application. The Spearman correlation value of 0.626 shows a positive correlation with a strong strength of influence.^{27,28,29}

Conclusion

1. There is an influence of perceived ease of use on interest in use
2. There is an influence of perceived usefulness on interest in use
3. Perception of ease and interest in using the E-Report application has a higher influence than perception of usefulness and interest in using the E-Report application

Recommendation: The e-Report application can be used to

check children's health and growth and development at the PAUD unit level to increase the coverage of children's health monitoring and SDIDTK

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