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## **The Effect of Android-Based SDIDTK Applications on The Implementation of SDIDTK**

Winda Windiiyani<sup>1</sup>, Sri Susilawati<sup>2</sup>, Tanti Rismayanti<sup>3</sup>

<sup>1</sup> Diploma III Midwifery Study Program, University of Muhammadiyah Tasikmalaya

e-mail: [winda.windiiyani@umtas.ac.id](mailto:winda.windiiyani@umtas.ac.id)

### **Abstract**

The growth and development of children 0-5 years or more is often referred to as the golden period where this period is a period of growth and development of children that will not be repeated. At the age of toddlers, children are very sensitive to the environment because at this time it takes place quickly. The occurrence of deviations from growth and development at this time cannot be overcome and will even be difficult to repair. Objectives: The purpose of this study is to analyze the effect of the SDIDTK application on the implementation of SDIDTK in the work area of the Kersanegara Health Center, Tasikmalaya City 2020. This study uses an analytical observational method, with an analytical approach. Cross sectional which aims to find a causal relationship between variables. All variables were measured at the same time. Sampling by accidental sampling. A total of 33 respondents. The results showed that there was an effect of the SDIDTK application on the implementation of SDDITK. The conclusion revealed that the SDIDTK application had an effect on the implementation of SDIDTK.

Keywords: SDIDTK Application; SDIDTK Implementation

### **Introduction**

Child growth and development is a period in human life, where growth can be assessed starting from the increase in the size, weight and height of the child, while development can be seen from several maturities including the function of organs in humans (Saurina, 2016) Growth and development of children 0-5 years or more is often referred to as the golden period where this period is a period of growth and development of children that will not be repeated. At the age of toddlers, children are very sensitive to the environment because at this time it takes place quickly. The

occurrence of deviations from growth and development at this time cannot be overcome and will even be difficult to repair.

Children under the age of 5 years in Indonesia experience general developmental delays which include motor, language, socio-emotional and cognitive development. growth and development in children. The use of technology for health has increased and modernized in this day and age. The use of this application will of course be aimed at health workers who can be on duty so that they can monitor the growth and

development of children (Abdullah, 2017 in Inggriani et al., 2019).

Based on data showing in each sector that the implementation of monitoring children's growth and development is still low and has not reached the target, the number of factors that influence the implementation of Stimulation of Detection of Early Interventions for Child Growth and Development makes it an obstacle for examiners in carrying out monitoring

The Android-based Early Intervention Detection Stimulation Instrument for Child Development is an application that is made simply and can make it easier for health workers to monitor child development and can be opened at any time and at any time (Bakhar, Andari, 2018). So the researchers tried to design the "SDIDTK Application". This application is an application that utilizes Android-based smartphone technology as a more practical tool and can be used by health workers, cadres, and parents in monitoring the growth and development of children. This application is very easy to understand and learn by all people.

The researcher hopes that the Android-based SDIDTK application can improve the implementation of SDIDTK in every posyandu, therefore the researcher tries to examine the "Effect of the Android-based SDIDTK Application on the implementation of SDIDTK.

**Method**

This study uses an analytical observational research method, with a cross sectional approach which aims to find a causal relationship between variables. All variables were measured at the same time. Sampling by accidental sampling. A total of 33 people.

**Results**

This research was conducted in November 2020 in the Kersanegara

Health Center Work Area, Tasikmalaya City. The research process was carried out by identifying cadres as respondents so that 33 cadres were obtained who had signed the consent form as research subjects

Table 1: Characteristics of Respondents

Characteristics	Frequency	Percentage
Age		
Late Teen	0	0 %
Early Adult	13	39,3%
Late Adult	20	60,7%
Early Elderly (Depkes RI)	0	0%
Years of service		
>10 years	17	51,6%
< 10 years	16	48,4%

Based on the age characteristics of the respondents, it was found that the age of respondents was in the early adult category as many as 13 people (39.3%), as many as 20 people in late adulthood (60.7%). With a long service life of more than 10 years.

Table 2: Implementation of Stimulation of Detection of Early Interventions for Child Development

Variabel	N	Minimum	Maksimum	Mean	Std. Deviasi
Implementation	33	26	39	32,83	3,146

Based on table 2, it is known that the implementation of the Stimulation of Detection of Early Intervention on Child Development has the lowest score of 26 and the highest score of 39, the average score obtained is 32.83 with a standard deviation of 3.146.

Table 3: Effect of SDIDTK Application on SDIDTK Implementation

Application	Implementation SDIDTK				Total		value
	Yes		no		F	%	
	F	%	F	%			
Used	23	70	7	22	30	92	0,003
Not Used	2	7	1	1	3	8	

Amount	24	75. 7	8	23	33	10 0	
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Based on table 3, it is known that the cadres who use the Stimulation Application for Early Intervention Detection of Child Growth and Development to monitor the growth and development of children with a percentage of 70%.

Based on the results of the chi-square statistical test regarding the effect of the application of Stimulation Detection of Early Intervention on Child Growth and Development with the management of Stimulation of Detection of Early Intervention on Child Growth and Development at the Puskesmas, it was obtained value (0.003) with a (0.05).

This value shows the value of value <  $\alpha$ , so the conclusion is that  $H_0$  is rejected and  $H_a$  is accepted, meaning that there is a significant effect between the Application of Early Intervention on Child Development and the implementation of the Stimulation of Detection of Early Intervention on Growth and Development at the Tasikmalaya City Health Center.

**Discussion**

Based on the characteristics of respondents, predisposing factors can influence a person's behavior. The characteristics in this study were grouped by age and length of work. The results of the study indicate that the respondents in this study are in the late adult age category, where adulthood is the age of adjustment that can affect various aspects of life that are closely related to prestige seen from the perspective of others.

The results of the study using chi-square analysis showed that there was a significant effect between the influence of the SDIDTK application and the implementation of SDIDTK with a p value of 0.003. The average implementation is in the category carried out using an application, which is 70%,

so the SDIDTK application is made as attractive as possible and as simple as possible to make it easier for users to use this application. This is in line with the theory that the better a person's knowledge, the better his behavior will be.

Theoretically, a person in carrying out something new or adopting a new behavior in his life goes through three stages, namely he must first know what the meaning or benefits of the behavior are, then the person assesses or behaves towards the stimulus or object, then he will carry out or practice what which he knows well according to his knowledge.

This is in accordance with last research in 2020 which revealed that, the effect of implementing the application of healthy toddlers on increasing mother's knowledge and skills in monitoring growth and development without being limited by space and time.

**Conclusion**

The conclusion in this study is that there is an effect of the application of Stimulation of Detection of Early Intervention on Child Development on the Implementation of Stimulation of Detection of Early Intervention on Child Development.

**Suggestion**

The application of Stimulation Detection of Early Intervention on Child Growth and Development can be used as a medium for health education regarding information on monitoring children's growth and development

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