# KNOWLEDGE AND ATTITUDES ABOUT HPV VACCINATION

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### KNOWLEDGE AND ATTITUDES ABOUT HPV VACCINATION

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#### Article Info

#### ABSTRACT

#### Article history:

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#### Keyword:

Level of Knowledge Attitude Parents HPV Vaccination HPV vaccination was one of the primary prevention efforts for cervical cancer.In 2016 of the four regencies in Yogyakarta, Kulon Progo Regency had the highest number of cervical cancer patients, which were 42 people.Especially in the Wates community health center, which contributes 8 people. SDN Gadingan and 6 Bendungan wereexperienced a decrease in DT immunization visits, which was 3.4%. While SDN 4 Bendungan had a fairly low percentage of HPV vaccination coverage compared to other SDs, which was 96.6%. This study aims to determine the level of knowledge and attitudes of respondents to HPV vaccination in 2018. This type of research was descriptive observational with cross sectional design. Research location in the Primary School of Wates Community Health Center. The subject of the research was the fifth grade female students in the State Elementary School in the Wates Community Health Center in 2018. The results showed that the mother's knowledge level was mostly enough at 66%. The results of the research on attitudes showed that most mothers had positive attitude that was 63%. The conclusion of this study was that there was a relationship between education and work to the level of knowledge. And there was a relationship between education and maternal attitudes toward HPV vaccination, but there was no relationship between work and maternal attitudes.

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#### INTRODUCTION

In Indonesia the prevalence of cervical cancer is in the ratio of 1.3 from 1,000 population or around 840 people. Yogyakarta Special Region (DIY) is the region that has the highest cancer cases compared to other provinces in Indonesia, namely 4.1% of the population or around 330,000 people. In 2016, Kulon Progo Regency contributed the highest number of cervical cancer patients, namely 42 people, especially in the Wates Health Center area, which was 8 people<sup>1-3.</sup>

According to the Ministry of Health of the Republic of Indonesia in 2009, almost all cervical cancers were caused by infection from the Human Papilloma Virus (HPV). It is

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known that HPV DNA can be found in 99% of cervical cancer cases worldwide. One way to prevent HPV infection is to do HPV vaccination<sup>4-6</sup>.

In October 2017 in Kulon Progo District, free HPV vaccination was carried out for girls in grade 5 elementary school through the BIAS program<sup>9</sup>. The government policy is only aimed at female students who go to public elementary schools, while female students attending private elementary schools have not been included in the program.

According to the Kulon Progo District Health Office, State Elementary School 6 Bendungan and State Elementary School Gadingan experienced a decrease in DT immunization visits by 3.4%. As for HPV vaccination coverage in State Elementary School 4 Bendungan, the percentage of coverage is quite low at 96.6%<sup>9</sup>. So the researchers took the area for research at State Elementary School 6 Bendungan, State Elementary School 4 Bendungan and State Elementary School 6 Bendungan, State Elementary School 4 Bendungan and State Elementary School Gadingan.

The general purpose of this study was to determine the level of knowledge and attitudes of 5th grade female students about HPV vaccination in the State Elementary School of Wates Health Center. Whereas for its specific purpose is to find out the characteristics of parents consisting of education and work. As well as knowing the frequency distribution between characteristics with the level of knowledge and attitude.

#### METHODS

This research using a cross sectional approach, carried out inWates Elementary school. The population in this study were all mothers of female students of grade 5 in Wates (SDN Bendungan 6, SDN Bendungan 4, and SDN Gadingan) as many as 37 respondents. This research was carried out on 13-18 July 2018. The variables of this study were the knowledge and attitudes about HPV vaccination.

#### RESULTS

#### **Characteristics of Respondents**

The results show that the majority of mothers have secondary education level of 62.16%. Based on job characteristics, it can be seen that most mothers have a non-working status, which is 54.05%.

No	Characteristics of Respondents	Mo	Mothers		
		n	%		
1	Level of Education				
	Primary Education (SD/SMP)	11	29,73		
	Secondary of Education (SMA/SMK)	23	62,16		
	Universities (DI, DII, DIII, S1, S2, S3)	3	8,11		
	Σ	37	100		

Table 1. Characteristics of Respondents

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No		Characteristics of Respondents	Mot	Mothers		
			n	%		
3	Occupation					
	Works		17	45,95		
	Not Working		20	54,05		
		Σ	37	100		

#### Level of Knowledge About HPV Vaccination

The level of mother's knowledge is mostly enough that is 27 respondents (66%).



Figure 1. Percentage of Knowledge Levels of Parents of Class 5 Women About HPV Vaccination in Primary Schools in the Wates Health Center Work Area

#### **Attitudes Toward HPV Vaccination**

The mother's attitude was mostly positive, as many as 20 respondents (63%).

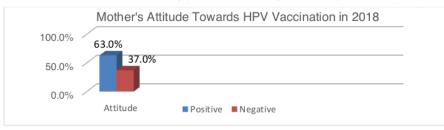


Figure 2. Percentage of Attitudes of Female Parents of Class 5 Women Against HPV Vaccination in Public Elementary Schools Wates Health Center Work Areas Characteristics with a Level of Mother's Knowledge of HPV Vaccination

Based on table 4.4 shows that most of the mothers respondents were middleeducated and had a sufficient level of knowledge that was 73.92%. Based on the characteristics of the work status, most of the mother respondents have a status of not working with a sufficient level of knowledge that is 80%. The test results show that there is a relationship between knowledge with education (p=0.017) and work (p=0,046).

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Table 4.4 Respondent	Characteristic and Kn	nowledge Level	about HPV Vaccination

		Knowledge Level								
No Karakteristik		Good		Enough		Less		Σ		ρ
		n	%	n	%	n	%	n	%	
1	Level of Education									0,017
	Primary Education	0	0	9	81,8	2	18,18	11	100	
	(SD/SMP)				2					
	Secondary of	3	13,0	17	73,9	3	13,04	23	100	
	Education (SMA/SMK)		4		2					
	Universities (DI, DII,	2	66,6	1	33,3	0	0	3	100	
	DIII, S1, S2, S3)		7		3					
2	Job									0,046
	Works	3	17,6	11	64,7	3	17,6	17	100	
	Not Working	0	0	16	80	4	20	20	100	

Table 4.5 Respondent Characteristic and Attitudetowards HPV Vaccination

		Attitude				Σ		
No	Characteristics of Responden	Positive		Negative				ρ
		n	%	n	%	n	%	-
1	Level of Education							0,038
	Primary Education (SD/SMP)	2	18,2	9	81,8	11	100	
	Secondary of Education (SMA/SMK)	16	69,6	7	30,4	23	100	
	Universities (DI, DII, DIII, S1, S2, S3)	2	66,7	1	33,3	3	100	
2	Job							0,169
	Works	9	52,9	8	47,1	17	100	
	Not Working	11	55	9	45	20	100	

Based on table 4.5 shows that the majority of the mother's education level is secondary education with a positive attitude that is equal to 69.6%. Based on the employment status, most of the mother respondents have a non-working status with a positive attitude of 55%. The test results show that there is a relationship between attitudes with education ( $\rho = 0.038$ ) and there is no relationship with work ( $\rho = 0.073$ ).

#### DISCUSSION

#### Level of Mother's Knowledge of HPV Vaccination

The results showed that the majority of female 5th graders in the State Primary School Wates Community Health Center had a sufficient level of knowledge about HPV vaccination, which was 66%.

According to Riyanto (2013) the factors that influence knowledge are social, cultural, and economic<sup>4</sup>. As stated by Erfandi's theory (2011) in Kusumawati's research (2016) which states that work can make a person gain experience and knowledge both directly and indirectly<sup>11</sup>.

The theory is in accordance with the results of the study that found that the majority of mothers who have a sufficient level of knowledge are mothers who do not work.

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#### Mother's Attitude to HPV Vaccination

The results showed that the majority of female grade 5 female students in the State Primary School Wates Community Health Center had a positive attitude towards HPV vaccination, which was 63%.

According to research Lee, et al (2017) stated that the higher the level of knowledge of a person, the higher the negative attitude given to HPVvaccination<sup>11</sup>. This can occur due to parental fear of the side effects of acquired HPV vaccinations<sup>11</sup>. This statement is in accordance with the results of the research that the author has obtained, the majority of mothers respondents only have a sufficient level of knowledge but have a positive attitude towards HPV vaccination.

#### Frequency Distribution Characteristics with Knowledge Level

Education

The results showed that most of the 5 th grade female students in the study had secondary education status with a sufficient level of knowledge about HPV vaccination of 73.92%. Test results from knowledge variables with respondents' education about HPV vaccination illustrate that there is a relationship between the two variables ( $\rho = 0.017$ ).

This research is in accordance with the theory of Notoatmodjo (2012) which argues that education is an attempt to develop one's personality and abilities, and can be obtained inside and outside of school and lasts a lifetime<sup>13</sup>.

So, in this study respondents who have a higher education have a good knowledge of the provision of HPV vaccination, and vice versa, the majority of mothers who have secondary education level only have a sufficient level of knowledge. Because knowledge can be obtained in schools.

#### Work

The results showed that the majority of female grade 5 female students in the State Primary School Wates Community Health Center had a non-working status with a sufficient level of knowledge that was 64.7%. The test results from the knowledge variable with the respondent's work about HPV vaccination illustrate that there is a relationship of the two variables (p = 0.046).

According to Riyanto (2013) the factors that influence knowledge are social, cultural, and economic<sup>4</sup>. A person's economic status will also determine the availability of

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a facility needed for certain activities so that the socioeconomic status will affect one's knowledge.

According to Erfandi's theory (2011) in Kusumawati's research (2016) states that work can make a person gain experience and knowledge both directly and indirectly<sup>11</sup>. This theory is in accordance with the results of a study of maternal respondents who stated that the majority of respondents who had a non-working status only had a sufficient level of knowledge about HPV vaccination.

#### **Respondent Characteristic and Attitude of HPV Vaccination**

The results showed that the majority of female grade 5 female students in the State Primary School Wates Community Health Center had a secondary education level with a positive attitude towards HPV vaccination at 69.6%. The test results of the attitude variables with the respondent's work about HPV vaccination illustrate the existence of a relationship (p = 0.038).

According to the theory presented by Azwar (2009) states that educational institutions are systems that have an influence on attitude formation because they both lay the basis of understanding and moral concepts in individual<sup>2</sup>.

The above theory is not in accordance with the results of the research that the researchers obtained, the majority of mothers who only had secondary education had a positive attitude towards HPV vaccination. However, this theory is in accordance with the results of a study of the relationship between education of female students of grade 5 women with knowledge of HPV vaccination which states that there is a relationship between the two variables.

The positive attitude that the mother has can occur because the child of the mother I studied previously had received free HPV vaccination from the Wates Health Center in the BIAS program.

The results showed that the majority of female grade 5 female students in the State Primary School Wates Community Health Center had a non-working status with a positive attitude towards HPV vaccination of 52.9%. Test results of knowledge variables with the work of respondents about HPV vaccination illustrate that there is no relationship (p = 0.169).

According to research Dethan, et al (2017) states that the cost of HPV vaccination is one of the factors that influence the attitude of respondents to HPV6 vaccination. Where parental work is very influential on the ability to pay for HPV vaccination. This is supported by research by Boenher et al (2008) which states that parents will be easier to allow their children to take HPV vaccinations if the costs incurred are relatively cheap<sup>3</sup>.

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So, the research results that the researchers obtained were not in accordance with the theory, which stated that the majority of respondents had a non-working status having a positive attitude towards HPV vaccination. This can happen because most of the respondents who were given questionnaires were respondents whose children had received free HPV vaccination through the government's BIAS program so that respondents had a positive attitude towards HPV vaccination. This is consistent with the results of Dethan's (2017) study which said that the government's program of giving vaccinations for free to students was one of the factors that motivated students to carry out HPV vaccinations<sup>6-9</sup>.

#### CONCLUSION

Based on the results of the study, it was found that the female grade 5 female students in the State Primary School Wates Public Health Center work area had the most knowledge level and had a non-working status. Grade 5 female schoolgirls at the State Elementary School Wates Public Health Center working area are mostly knowledgeable about HPV vaccination and have an attitude towards HPV vaccination

Grade 5 female schoolgirls at the State Elementary School in the Wates Community Health Center work area with a majority of secondary education and nonworking status with most knowledgeable about HPV vaccination. Grade 5 female schoolgirls at the State Elementary School Wates Community Health Center work area with a majority of secondary education and non-working status with most having a positive attitude towards HPV vaccination.

Based on the research that has been done, it can be concluded that the level of education and employment status of the mother influence the level of maternal knowledge about HPV vaccination. Whereas the mother's attitude towards HPV vaccination is influenced by the level of mother's education, but is not influenced by the mother's work.

#### SUGGESTION

#### For Elementary School Principals

Plan and compile a joint program with the puskesmas to conduct socialization about HPV vaccination to parents of students and female students so that parents' knowledge of HPV vaccination is increasing.

#### For Midwives Responsible for Wates Health Center Reproductive Health

Midwives can optimize, carry out the services and coaching of reproductive health for adolescents, especially early adolescent parents regarding HPV vaccination by

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conducting socialization to the community, especially parents of early adolescents and teachers at the Elementary School level, so that parents and teachers can motivate their children and students to be able to HPV vaccination.

#### For further researchers

The results of this study can help to do further research, namely to make methods or media in improving knowledge and attitudes towards HPV vaccination.

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