BUKTI KORESPONDENSI

ARTIKEL JURNAL ILMIAH NASIONAL

Judul artikel : Prevention of Cervical Cancer among Mother in Yogyakarta

- Jurnal : International Journal of Public Health Science
- Penulis : Nanik Setiyawati, Niken Meilani

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1	Bukti Penerimaan artikel	28 September 2018
2	Bukti konfirmasi review dan hasil review pertama	13 Oktober 2018
3	Bukti revisi hasil review pertama	20 Oktober 2018
4	Bukti konfirmasi review dan hasil review kedua	6 November 2018
5	Bukti konfirmasi hasil review kedua dan bukti revisi hasil review kedua	8 November 2018B
6	Bukti Konfirmasi Review ketiga	9 November 2018
7	Bukti konfirmasi hasil review ketiga dan bukti revisi hasil review ketiga	10 November 2018

1. BUKTI PENERIMAAN ARTIKEL (28 SEPTEMBER 2018)



2. BUKTI KONFIRMASI REVIEW DAN HASIL REVIEW PERTAMA (13 OKTOBER 2018)

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1. INTRODUCTION (10 PT)

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A title of article should be the fewest possible words that accurately describe the content of the paper. Omit all waste words such as "A study of ...", "Investigations of ...", "Implementation of ...", "Observations on ...", "Effect of.....", "Analysis of ...", "Design of..." etc. Indexing and abstracting services depend on the accuracy of the title, extracting from it keywords useful in cross-referencing and computer

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A well-prepared abstract enables the reader to identify the basic content of a document quickly and accurately, to determine its relevance to their interests, and thus to decide whether to read the document in its entirety. The Abstract should be informative and completely self-explanatory, provide a clear statement of the problem, the proposed approach or solution, and point out major findings and conclusions. The Abstract should be 100 to 200 words in length. The abstract should be written in the past tense. Standard nomenclature should be used and abbreviations should be avoided. No literature should be cited. The keyword list provides the opportunity to add keywords, used by the indexing and abstracting services, in addition to those already present in the title. Judicious use of keywords may increase the ease with which interested parties can locate our article (9 pt).

Copyright © 201x Institute of Advanced Engineering and Science. All rights reserved. searching. An improperly titled paper may never reach the audience for which it was intended, so be specific.

The Introduction should provide a clear background, a clear statement of the problem, the relevant literature on the subject, the proposed approach or solution, and the new value of research which it is innovation. It should be understandable to colleagues from a broad range of scientific disciplines.Organization and citation of the bibliography are made in Vancouver style in sign [1], [2] and so on. The terms in foreign languages are written italic (italic).The text should be divided into sections, each witha separate heading and numbered consecutively. Thesection/subsection headings should be typed on a separateline, e.g., **1. Introduction**[3].Authors are suggested to present their articles in the section structure: Introduction - the comprehensive theoretical basis and/or the Proposed Method/Algorithm - Research Method - Results and Discussion – Conclusion.

Literature review that has been done author used in the chapter "Introduction" to explain the difference of the manuscript with other papers, that it is innovative, it are used in the chapter "Research Method" to describe the step of research and used in the chapter "Results and Discussion" to support the analysis of the results [2]. If the manuscript was written really have high originality, which proposed a new method or algorithm, the additional chapter after the "Introduction" chapter and before the "Research Method" chapter can be added to explain briefly the theory and/or the proposed method/algorithm [4].

2. RESEARCH METHOD (10 PT)

Explaining research chronological, including research design, research procedure (in the form of algorithms, Pseudocode or other), how to test and data acquisition [1]-[3]. The description of the course of research should be supported references, so the explanation can be accepted scientifically [2], [4].

Tables and Figures are presented center, as shown below and cited in the manuscript.

Variable	Speed (rpm)	Power (kW)
х	10	8.6
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Table 1. The Performance of ...



Figure 1. Effects of selecting different switching under dynamic condition

3. RESULTS AND ANALYSIS (10 PT)

In this section, it is explained the results of research and at the same time is given the comprehensive discussion. Results can be presented in figures, graphs, tables and others that make the reader understand easily [2], [5]. The discussion can be made in several sub-chapters.

3.1. Sub section 1

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3.2. Sub section2

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4. CONCLUSION (10 PT)

Provide a statement that what is expected, as stated in the "Introduction" chapter can ultimately result in "Results and Discussion" chapter, so there is compatibility. Moreover, it can also be added the prospect of the development of research results and application prospects of further studies into the next (based on result and discussion).

ACKNOWLEDGEMENTS(10 PT)

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REFERENCES(10 PT)

The main references are international journals and proceedings. All references should be to the most pertinent and up-to-date sources. References are written in Vancouver style. Please use a consistent format for references – see examples below (9 pt):

- [1] Brambilla, M.; , "Income distribution and cause-specific mortality," *Eur J Public Health*, vol.6, no.2, pp.114-126, April 2012.
- [2] Faloutsos, M.; Karagiannis, T.; Moon, S.; , "Failure of syngeneic bone-marrow graft without preconditioning in post-hepatitis marrow aplasia," *International Journal of Publich Health* , vol.24, no.5, pp.4-5, September-October 2010.
- [3] Yao-Jen Chang; Hung-Huan Liu; Tsen-Yung Wang; , "Coffee drinking and cancer of the pancreas," *Indian Journal of Publich Health*, vol.16, no.3, pp.34-40, June 2009.
- [4] Chai-Arayalert, S.; Nakata, K.; , "*BN-52021 protects guinea-pig from heart anaphylaxis*," International Conference onPublich Health Science 2011, vol., no., pp.220-225, 4-5 Aug. 2011.

BIOGRAPHIES OF AUTHORS (10 PT) (This part is optional)

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3. BUKTI REVISI HASIL REVIEW PERTAMA (20 OKTOBER 2018)

Prevention of Cervical Cancer on Mother in Yogyakarta, Indonesia

Nanik Setiyawati^{*}, Niken Meilani^{*}

*)Midwifery Department Health Polytechnic Ministry of Health in Yogyakarta

Article Info	ABSTRACT
Article history:	Cervical cancer was one of the global commitments in Sustainable Development Goals (SDGs). Cervical cancer represents 7.5% of all deaths caused by cancer in women. The method to screening cervical cancer are pap smear test and Visual Inspection of Acetic Acid (VIA) test. Indonesia is the second country in the world has the most cervical
Keyword: VIA test Attitudes Housewife	cancer cases. This study aims to determine the behavior of cervical cancer prevention on housewives. This is kuantitatif research with cross sectional design. The subjects of this study were housewives in the Kota Yogyakarta and Sleman regency amounting to 350 people. The analysis used is univariate, bivariate and multivariate analysis. The results showed that there were 45.1% of mothers' have did the implementation of VIA. There is a relationship of education (p = 0.024), level of knowledge (p = 0.036), and maternal attitudes with cervical cancer prevention behavior. There were no correlation between age (p = 0) parity (p = 0.816) and family income (p = 0.174)
Corresponding Author:	with the mother's behavior in the implementation of the VIA's test. Multivariate analysis showed maternal attitude ($CI = 0.335-0.788$) that affect the behavior of the VIA.

Nanik Setiyawati, Midwifery Department, Helath Polytechnic Ministry of Helath Yogyakarta, Mangkuyudan MJ III/304 Yogyakarta, Indonesia. Email: nanikyogya@gmail.com

1. INTRODUCTION

Cervical cancer cases in 2012 included 528 000 new cases, which have been diagnosed worldwide and 85% occur in less developed areas. Cervical cancer causes 266 000 women to die of cervical cancer every year. Cervical cancer represents 7.5% of all deaths caused by cancer in women. From those data, we know that cervical cancer is a threat for the health that should be pressed down at least until 2030 which consist of currative action to the people living with cervical cancer.^[1]

Indonesia is the second country in the world after China has the most cervical cancer. ^[1] Based on data from the Ministry of Health in 2015, on average every hour the number of Cervical Cancer sufferers increased by 2.5 people

and 1.1 women died of cervical cancer. The prevalence and estimation of cervical cancer patients in 2013 in Indonesia was 0.8 ‰ with an estimated total of 98,692 cases. Riau Islands Province, North Maluku Province, and D.I.Y Province (Yogyakarta Special Region) have the highest prevalence of cervical cancer which is 1.5 ‰ with a total of 2,703 cases. [2]

Prevention of cervical cancer can be done by performing an early cervical health examination (screening), because symptoms of cervical cancer are not seen until the stage is more severe. ^[3] High-quality screening with cytology (Papanicolaou [Pap] testing) has markedly reduced mortality from squamous cell cervical cancer, which comprises 80% to 90% of cervical cancers. ^[4-6] Examination of early detection of cervical cancer with VIA is a visual examination of the cervix using vinegar, meaning seeing the cervix with the naked eye to detect abnormalities after applying acetic acid or vinegar (3-5%).

To improve the implementation of prevention and early detection of cancer in women in Indonesia, the government is optimizing the cervical cancer early detection program for the 2015-2019 period. The effort taken was an early detection movement through the method of simultaneous VIA examination in all parts of Indonesia on April 21, 2015. This movement will last for 5 years and it is expected that by 2019 the number of WUS (women of childbearing age) who are carried out early detection reaches 50 percent.^[2]

On the word of Hae Won Kim and Duck Hee Kim, 2015 that The mothers' awareness and preparedness with respect to the prevention of cervical cancer in their adolescent daughters were low and inadequate. Mothers should be informed and motivated to play a role in the education of their daughters regarding cervical cancer prevention. Strategies for disseminating information regarding early cervical cancer prevention for adolescent girls are recommended by communicating with both the girls and their mothers and providing them with education regarding cervical cancer prevention. ^[8] This study aims to determine the factors that influence mother in behavior of cervical cancer prevention.

2. RESEARCH METHOD

This study used analytic survey with cross-sectional design. This study conducted on housewives in the Kota Yogyakarta and Sleman who were members of the Family Empowerment and Welfare amounting to 350 people. This study was conducted in 2016.

The population target in this study was housewives who were members of the Family Empowerment and Welfare to manage the confounding variables. To determine the sample size, we used the formula for sample size with calculation of proportion as per Lemeshow with minimum sample size obtained was 350 respondent. Proportional sampling was used to determine the sample chosen.

Variables in this study used the theoritical framework approach of Theory of Precede-Proced (Lawrence Green). Independent variable consist of the characteristic of respondent (age, parity, education, family income), knowledge level about VIA, and mother' attitude toward VIA. The dependent variable was cervical cancer prevention behavior in mother.,

This study took primary data. Instrument used in this study was quetionaire. Quetionaire used was development from questionaire about mothers' knowledge, attitude and behavior toward VIA which have been tested the validity and reliability at Bantul district.

3. RESULTS AND ANALYSIS

This study conducted on 350 respondent was housewives were members of the Family Empowerment and Welfare. The characteristic of the respondent showed in table 1 below:

	Table 1. Respondent's Characteri	stic
Characteristic	Amount	Percentage (%)
	(n=350)	
Age		
<u><</u> 35 years	82	23.4
>35 years	268	76.6
Parity		
Nulipara	6	1.7
Primipara	83	23.7
Secundipara	166	47.5
Multi gravida	95	27.1

Education		
Basic	91	26.0
Medium	191	54.6
High	68	19.4
Family Income		
> Rp.1.450.000,00	189	54.0
<u><</u> Rp.1.450.000,00	161	46.0

Table 1 shows that the major proportion of respondents were aged >35 years old (76.6%), with the highest parity was secundipara in the amount of 166 respondents (47.5%). More than half of the respondents with secondary education amounted to 191 respondents (54.6%). Family income > Rp. 1.450.000,00 as many as 189 respondents (54%).

Characteristic	Amount	Percentage (%)
	(n=350)	
Knowledge level about VIA		
Good	33	9.4
Adequate	282	80.6
Poor	35	10.0
Mothers' attitude toward VIA		
Positive	191	54.6
Negative	159	45.4
Mothers' behavior toward VIA		
Do VIA	158	45.1
Not Do VIA	192	54.9

Table 2 shows that most respondent have not enough knowledge about VIA (80.6%). There are still 35 respondents (10%) with a lack of knowledge, the role of health workers is needed in providing insight to mothers regarding early detection of cervical cancer (VIA). Most respondent have positive attitude toward VIA (54.6%). The behavior of the VIA inspection there are 192 respondents (54.9%) for not VIA.

Bivariate analysis was used to analyze independent and dependent variables. The relation between independent and dependent variables are showed in table 3 below:

Table 3. The Relationship between Mothers' Characteristic, Knowledge Level, Attitude, and Behavior toward VIA

Variable			Behavior to	ward VIA			p-value
	Not Do	o VIA	Do V	VIA	Tota	ıl	
	n=192	%	n=158	%	n=350	%	
Age							
<u><</u> 35 years	45	54.9	37	45.1	82	100	
> 35 years	147	54.9	121	45.1	268	100	
Parity							
Nulipara	3	50	3	50	6	100	
Primipara	48	57.8	35	42.2	83	100	0.916
Sekundipara	90	54.2	76	45.8	166	100	0.810
Multipara	51	53.7	44	46.3	95	100	
Education Level							
Basic	57	62.6	34	37.4	91	100	0.024*
Medium	102	53.4	89	46.6	191	100	
High	33	48.5	35	51.5	68	100	
Family Income							
> Rp.1.450.000,00	110	58.2	79	41.8	189	100	0.174
< <u><</u> Rp.1.450.000,00	82	51	79	49	161	100	
Knowledge level							
Superior	16	48.5	17	51.5	33	100	0.036*
Satisfactory	150	53.2	132	46.8	282	100	
Unsatisfactory	26	74.3	9	25.7	35	100	
Attitude toward VIA							
Positive	119	62.3	72	37.7	191	100	0.002*
Negative	73	45.9	86	54.1	159	100	

Table 3 shows that factors relating to the behavior of VIA with a p-value <0.05 was educational p = 0.024, p = 0.036 level of knowledge, and attitudes toward VIA inspection p = 0.002. 268 respondents with age> 35 years as many as 147 respondents (54.9%) did not do VIA. 166 respondents with secundipara parity as many as 90 respondents (54.2%) did not do VIA. 189 respondents with family income >Rp 1.450.000,00 as many as 110 respondents (58.2%) did not do an VIA. So it can be concluded that there is no significant relationship between parity and family income with IVA behavior (p-value 0.816 and 0.174).

Multivariate analysis were done to independent variables that have p < 0.002 altogether. The result of multivariate analysis showed in table 4 below:

	Table 4: Mu	iltivariate A	nalysis Result			
				95.0% (C.I.for EXP(B)	
	В	Sig.	Exp(B)	Lower	Upper	
Attitude toward VIA test	666	.002	.514	.335	.788	
Constant	.164	.303	1.178			

Table 4 shows that the results of statistical tests with logistic regression found that the attitude has a p-value of 0.002. This shows that the factor that most influences the behavior toward VIA is the attitude of respondents. Its has a p-value of 0.002 > 0.05.

Cervical cancer could be prevented by screening VIA. The results of abudukadeer A et al (2015) showed that women between the age group 31 to 40 years had more awareness about cervical cancer. ^[9] Respondents older than 30 years have a possibility of having a precancerous lesion is higher than under 30 years of age so that respondents in that age will find it more important to conduct tests VIA. ^[10] The results of this study found no correlation of age to the prevention behavior of IVA cervical cancer (p = 0). The results of this study are in accordance with Gustiana D's (2014) study that there was no significant relationship between age and early detection of cervical cancer p = 0.306. It can be associated with susceptibility to disease. Age can not be used as a benchmark for a person to prevent cervical cancer. This can be due to ignorance, no complaints, nor do to prevent cervical cancer has not been necessary. ^[11]

The results of previous studies conducted by Yuliwati (2012) also showed that there was no significant relationship between age and maternal behavior to check VIA.^[12] However, different research results Sulistiowati Eva (2014) who showed that age has a significant relationship with the knowledge that motivates behavior of women for the early detection of cervical cancer by VIA in the district of Central Bogor p = 0.001.^[13]

The results of Heni P et al's research showed that parity had a significant relationship to precancerous cervical lesions. ^[14] While the chi square test results in this study indicate that there is no significant relationship between parity against the IVA behavior p = 0816. The results of this study are inconsistent with Sri Dinengsih research and Erry Sitanggang (2018) states that there is a significant relationship between parity with IVA inspection. A third parity or more at risk of developing cervical cancer. Multiparity suspected of causing a decrease in endurance. So it is necessary to do the IVA method to detect early cervical cancer. ^[15]

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4. CONCLUSION

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4. BUKTI KONFIRMASI REVIEW KEDUA (6 NOVEMBER 2018)



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Prevention of Cervical Cancer on Mother in Yogyakarta, Indonesia

Nanik Setiyawati^{*}, Niken Meilani^{*}

*)Midwifery Department Health Polytechnic Ministry of Health in Yogyakarta

Article Info	ABSTRACT
Article history:	Cervical cancer was one of the global commitments in Sustainable Development Goals (SDGs). Cervical cancer represents 7.5% of all deaths caused by cancer in women. The method to screening cervical cancer are pap smear test and Visual Inspection of Acetic Acid (VIA) test. Indonesia is the second country in the world has the most cervical
Keyword: VIA test Attitudes Housewife	cancer cases. This study aims to determine the behavior of cervical cancer prevention on housewives. This is kuantitatif research with cross sectional design. The subjects of this study were housewives in the Kota Yogyakarta and Sleman regency amounting to 350 people. The analysis used is univariate, bivariate and multivariate analysis. The results showed that there were 45.1% of mothers' have did the implementation of VIA. There is a relationship of education ($p = 0.024$), level of knowledge ($p = 0.036$), and maternal attitudes with cervical cancer prevention behavior. There were no correlation between age ($p = 0$), parity ($p = 0.816$), and family income ($p = 0.174$) with the mother's behavior in the implementation of the VIA's test. Multivariate analysis showed maternal attitude (CI = 0.335-0.788) that affect the behavior of the VIA.
<i>Corresponding Author:</i> Nanik Setiyawati, Midwifery Department, Helath Polytechnic Ministry of Hela Mangkuyudan MJ III/304 Yogyakat Email: nanikyogya@gmail.com	nth Yogyakarta, rta, Indonesia.

5. INTRODUCTION

Cervical cancer cases in 2012 included 528 000 new cases, which have been diagnosed worldwide and 85% occur in less developed areas. Cervical cancer causes 266 000 women to die of cervical cancer every year. Cervical cancer represents 7.5% of all deaths caused by cancer in women. From those data, we know that cervical cancer is a threat for the health that should be pressed down at least until 2030 which consist of currative action to the people living with cervical cancer.^[1]

Indonesia is the second country in the world after China has the most cervical cancer. ^[1] Based on data from the Ministry of Health in 2015, on average every hour the number of Cervical Cancer sufferers increased by 2.5 people and 1.1 women died of cervical cancer. The prevalence and estimation of cervical cancer patients in 2013 in Indonesia was 0.8 ‰ with an estimated total of 98,692 cases. Riau Islands Province, North Maluku Province, and D.I.Y Province (Yogyakarta Special Region) have the highest prevalence of cervical cancer which is 1.5 ‰ with a total of 2,703 cases. ^[2]

Prevention of cervical cancer can be done by performing an early cervical health examination (screening), because symptoms of cervical cancer are not seen until the stage is more severe. ^[3] High-quality screening with cytology (Papanicolaou [Pap] testing) has markedly reduced mortality from squamous cell cervical cancer, which comprises 80% to 90% of cervical cancers. ^[4-6] Examination of early detection of cervical cancer with VIA is a visual

examination of the cervix using vinegar, meaning seeing the cervix with the naked eye to detect abnormalities after applying acetic acid or vinegar (3-5%).

To improve the implementation of prevention and early detection of cancer in women in Indonesia, the government is optimizing the cervical cancer early detection program for the 2015-2019 period. The effort taken was an early detection movement through the method of simultaneous VIA examination in all parts of Indonesia on April 21, 2015. This movement will last for 5 years and it is expected that by 2019 the number of WUS (women of childbearing age) who are carried out early detection reaches 50 percent.^[2]

On the word of Hae Won Kim and Duck Hee Kim, 2015 that The mothers' awareness and preparedness with respect to the prevention of cervical cancer in their adolescent daughters were low and inadequate. Mothers should be informed and motivated to play a role in the education of their daughters regarding cervical cancer prevention. Strategies for disseminating information regarding early cervical cancer prevention for adolescent girls are recommended by communicating with both the girls and their mothers and providing them with education regarding cervical cancer prevention. ^[8] This study aims to determine the factors that influence mother in behavior of cervical cancer prevention.

6. RESEARCH METHOD

This study used analytic survey with cross-sectional design. This study conducted on housewives in the Kota Yogyakarta and Sleman who were members of the Family Empowerment and Welfare amounting to 350 people. This study was conducted in 2016.

The population target in this study was housewives who were members of the Family Empowerment and Welfare to manage the confounding variables. To determine the sample size, we used the formula for sample size with calculation of proportion as per Lemeshow with minimum sample size obtained was 350 respondent. Proportional sampling was used to determine the sample chosen.

Variables in this study used the theoritical framework approach of Theory of Precede-Proced (Lawrence Green). Independent variable consist of the characteristic of respondent (age, parity, education, family income), knowledge level about VIA, and mother' attitude toward VIA. The dependent variable was cervical cancer prevention behavior in mother.,

This study took primary data. Instrument used in this study was quetionaire. Quetionaire used was development from questionaire about mothers' knowledge, attitude and behavior toward VIA which have been tested the validity and reliability at Bantul district.

7. RESULTS AND ANALYSIS

This study conducted on 350 respondent was housewives were members of the Family Empowerment and Welfare. The characteristic of the respondent showed in table 1 below:

Table 1. I	Respondent's Characteristic	
Characteristic	Amount	Percentage (%)
	(n=350)	
Age		
<u><</u> 35 years	82	23.4
>35 years	268	76.6
Parity		
Nulipara	6	1.7
Primipara	83	23.7
Secundipara	166	47.5
Multi gravida	95	27.1
Education		
Basic	91	26.0
Medium	191	54.6
High	68	19.4
Family Income		
> Rp.1.450.000,00	189	54.0
<u><</u> Rp.1.450.000,00	161	46.0

Table 1 shows that the major proportion of respondents were aged >35 years old (76.6%), with the highest parity was secundipara in the amount of 166 respondents (47.5%). More than half of the respondents with secondary education amounted to 191 respondents (54.6%). Family income > Rp. 1.450.000,00 as many as 189 respondents (54%).

Characteristic	Amount	Percentage (%)
	(n=350)	
Knowledge level about VIA		
Good	33	9.4
Adequate	282	80.6
Poor	35	10.0
Mothers' attitude toward VIA		
Positive	191	54.6
Negative	159	45.4
Mothers' behavior toward VIA		
Do VIA	158	45.1
Not Do VIA	192	54.9

Table 2 shows that most respondent have not enough knowledge about VIA (80.6%). There are still 35 respondents (10%) with a lack of knowledge, the role of health workers is needed in providing insight to mothers regarding early detection of cervical cancer (VIA). Most respondent have positive attitude toward VIA (54.6%). The behavior of the VIA inspection there are 192 respondents (54.9%) for not VIA.

Bivariate analysis was used to analyze independent and dependent variables. The relation between independent and dependent variables are showed in table 3 below:

Table 3. The Relationship between Mothers' Characteristic, Knowledge Level, Attitude, and Behavior toward VIA

Variable			Behavior to	ward VIA			p-value
	Not Do	o VIA	Do V	/IA	Tota	ıl	
	n=192	%	n=158	%	n=350	%	
Age							
<u><</u> 35 years	45	54.9	37	45.1	82	100	
> 35 years	147	54.9	121	45.1	268	100	
Parity							
Nulipara	3	50	3	50	6	100	
Primipara	48	57.8	35	42.2	83	100	0.916
Sekundipara	90	54.2	76	45.8	166	100	0.810
Multipara	51	53.7	44	46.3	95	100	
Education Level							
Basic	57	62.6	34	37.4	91	100	0.024*
Medium	102	53.4	89	46.6	191	100	
High	33	48.5	35	51.5	68	100	
Family Income							
> Rp.1.450.000,00	110	58.2	79	41.8	189	100	0.174
< <u><</u> Rp.1.450.000,00	82	51	79	49	161	100	
Knowledge level							
Superior	16	48.5	17	51.5	33	100	0.036*
Satisfactory	150	53.2	132	46.8	282	100	
Unsatisfactory	26	74.3	9	25.7	35	100	
Attitude toward VIA							
Positive	119	62.3	72	37.7	191	100	0.002*
Negative	73	45.9	86	54.1	159	100	

Table 3 shows that factors relating to the behavior of VIA with a p-value <0.05 was educational p = 0.024, p = 0.036 level of knowledge, and attitudes toward VIA inspection p = 0.002. 268 respondents with age> 35 years as many as 147 respondents (54.9%) did not do VIA. 166 respondents with secundipara parity as many as 90 respondents (54.2%) did not do VIA. 189 respondents with family income >Rp 1.450.000,00 as many as 110 respondents (58.2%) did not do an VIA. So it can be concluded that there is no significant relationship between parity and family income with IVA behavior (p-value 0.816 and 0.174).

Multivariate analysis were done to independent variables that have p < 0.002 altogether. The result of multivariate analysis showed in table 4 below:

	Table 4: Mu	iltivariate A	nalysis Result		
				95.0% (C.I.for EXP(B)
	В	Sig.	Exp(B)	Lower	Upper
Attitude toward VIA test	666	.002	.514	.335	.788
Constant	.164	.303	1.178		

Table 4 shows that the results of statistical tests with logistic regression found that the attitude has a p-value of 0.002. This shows that the factor that most influences the behavior toward VIA is the attitude of respondents. Its has a p-value of 0.002 > 0.05.

Cervical cancer could be prevented by screening VIA. The results of abudukadeer A et al (2015) showed that women between the age group 31 to 40 years had more awareness about cervical cancer. ^[9] Respondents older than 30 years have a possibility of having a precancerous lesion is higher than under 30 years of age so that respondents in that age will find it more important to conduct tests VIA. ^[10] The results of this study found no correlation of age to the prevention behavior of IVA cervical cancer (p = 0). The results of this study are in accordance with Gustiana D's (2014) study that there was no significant relationship between age and early detection of cervical cancer p = 0.306. It can be associated with susceptibility to disease. Age can not be used as a benchmark for a person to prevent cervical cancer. This can be due to ignorance, no complaints, nor do to prevent cervical cancer has not been necessary. ^[11]

The results of previous studies conducted by Yuliwati (2012) also showed that there was no significant relationship between age and maternal behavior to check VIA.^[12] However, different research results Sulistiowati Eva (2014) who showed that age has a significant relationship with the knowledge that motivates behavior of women for the early detection of cervical cancer by VIA in the district of Central Bogor p = 0.001.^[13]

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6. BUKTI KONFIRMASI REVIEW KETIGA (9 NOVEMBER 2018)



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Prevention of Cervical Cancer on Mother in Yogyakarta, Indonesia

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Article Info	ABSTRACT
Article history:	Cervical cancer was one of the global commitments in Sustainable
Received Sep 28, 2018 Revised Nov 8, 2018 Accepted Nov 15, 2018	Development Goals (SDGs). Cervical cancer represents 7.5% of all deaths caused by cancer in women. The method to screening cervical cancer are pap smear test and Visual Inspection of Acetic Acid (VIA) test. Indonesia is the second country in the world has the most cervical cancer cases. This study aims to determine the behavior of cervical cancer prevention on housewives.
Keyword:	This is kuantitatif research with cross sectional design. The subjects of this study were housewives in the Kota Yogyakarta and Sleman regency
Attitudes Housewife VIA test	amounting to 350 people. The analysis used is univariate, bivariate and multivariate analysis. The results showed that there were 45.1% of mothers' have did the implementation of VIA. There is a relationship of education ($p = 0.024$), level of knowledge ($p = 0.036$), and maternal attitudes with cervical cancer prevention behavior. There were no correlation between age ($p = 0$), parity ($p = 0.816$), and family income ($p = 0.174$) with the mother's behavior in the implementation of the VIA's test. Multivariate analysis showed maternal attitude (CI = 0.335-0.788) that affect the behavior of the VIA.
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1. INTRODUCTION

Cervical cancer cases in 2012 included 528 000 new cases, which have been diagnosed worldwide and 85% occur in less developed areas. Cervical cancer causes 266 000 women to die of cervical cancer every year. Cervical cancer represents 7.5% of all deaths caused by cancer in women. From those data, we know that cervical cancer is a threat for the health that should be pressed down at least until 2030 which consist of currative action to the people living with cervical cancer [1].

Indonesia is the second country in the world after China has the most cervical cancer [1]. Based on data from the Ministry of Health in 2015, on average every hour the number of Cervical Cancer sufferers increased by 2.5 people and 1.1 women died of cervical cancer. The prevalence and estimation of cervical cancer patients in 2013 in Indonesia was 0.8 ‰ with an estimated total of 98,692 cases. Riau Islands Province, North Maluku Province, and D.I.Y Province (Yogyakarta Special Region) have the highest prevalence of cervical cancer which is 1.5 ‰ with a total of 2,703 cases [2].

Prevention of cervical cancer can be done by performing an early cervical health examination (screening), because symptoms of cervical cancer are not seen until the stage is more severe [3]. High-quality screening with cytology (Papanicolaou [Pap] testing) has markedly reduced mortality from squamous cell cervical cancer, which comprises 80% to 90% of cervical cancers [4-6]. Examination of early detection of cervical cancer with VIA is a visual examination of the cervix using vinegar, meaning seeing the cervix with the naked eye to detect abnormalities after applying acetic acid or vinegar (3-5%).

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To improve the implementation of prevention and early detection of cancer in women in Indonesia, the government is optimizing the cervical cancer early detection program for the 2015-2019 period. The effort taken was an early detection movement through the method of simultaneous VIA examination in all parts of Indonesia on April 21, 2015. This movement will last for 5 years and it is expected that by 2019 the number of WUS (women of childbearing age) who are carried out early detection reaches 50 percent [2].

On the word of Hae Won Kim and Duck Hee Kim, 2015 that The mothers' awareness and preparedness with respect to the prevention of cervical cancer in their adolescent daughters were low and inadequate. Mothers should be informed and motivated to play a role in the education of their daughters regarding cervical cancer prevention. Strategies for disseminating information regarding early cervical cancer prevention for adolescent girls are recommended by communicating with both the girls and their mothers and providing them with education regarding cervical cancer prevention [8]. This study aims to determine the factors that influence mother in behavior of cervical cancer prevention.

2. RESEARCH METHOD

This study used analytic survey with cross-sectional design. This study conducted on housewives in the Kota Yogyakarta and Sleman who were members of the Family Empowerment and Welfare amounting to 350 people. This study was conducted in 2016. The population target in this study was housewives who were members of the Family Empowerment and Welfare to manage the confounding variables. To determine the sample size, we used the formula for sample size with calculation of proportion as per Lemeshow with minimum sample size obtained was 350 respondent. Proportional sampling was used to determine the sample chosen. Variables in this study used the theoritical framework approach of Theory of Precede-Proced (Lawrence Green). Independent variable consist of the characteristic of respondent (age, parity, education, family income), knowledge level about VIA, and mother' attitude toward VIA. The dependent variable was cervical cancer prevention behavior in mother. This study took primary data. Instrument used in this study was quetionaire. Quetionaire used was development from questionaire about mothers' knowledge, attitude and behavior toward VIA which have been tested the validity and reliability at Bantul district.

3. RESULTS AND ANALYSIS

This study conducted on 350 respondent was housewives were members of the Family Empowerment and Welfare. The characteristic of the respondent showed in Table 1. Table 1 shows that the major proportion of respondents were aged >35 years old (76.6%), with the highest parity was secundipara in the amount of 166 respondents (47.5%). More than half of the respondents with secondary education amounted to 191 respondents (54.6%). Family income >Rp. 1.450.000,00 as many as 189 respondents (54%).

Table 1. Respondent's Characteristic					
Characteristic	Amount (n=350)	Percentage (%)			
Age					
<35 years	82	23.4			
>35 years	268	76.6			
Parity					
Nulipara	6	1.7			
Primipara	83	23.7			
Secundipara	166	47.5			
Multi gravida	95	27.1			
Education					
Basic	91	26.0			
Medium	191	54.6			
High	68	19.4			
Family Income					
> Rp.1.450.000,00	189	54.0			
< Rp.1.450.000,00	161	46.0			

Table 2 shows that most respondent have not enough knowledge about VIA (80.6%). There are still 35 respondents (10%) with a lack of knowledge, the role of health workers is needed in providing insight to mothers regarding early detection of cervical cancer (VIA). Most respondent have positive attitude toward VIA (54.6%). The behavior of the VIA inspection there are 192 respondents (54.9%) for not VIA.

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e 2. Mothers' Knowledge Le	vel, Attitude, and Bel	navior toward VIA Test
Characteristic	Amount (n=350)	Percentage (%)
Knowledge level about VIA		
Good	33	9.4
Adequate	282	80.6
Poor	35	10.0
Mothers' attitude toward VIA		
Positive	191	54.6
Negative	159	45.4
Mothers' behavior toward VIA		
Do VIA	158	45.1
Not Do VIA	192	54.9

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Bivariate analysis was used to analyze independent and dependent variables. The relation between independent and dependent variables are showed in Table 3. Table 3 shows that factors relating to the behavior of VIA with a p-value <0.05 was educational p=0.024, p=0.036 level of knowledge, and attitudes toward VIA inspection p=0.002. 268 respondents with age >35 years as many as 147 respondents (54.9%) did not do VIA. 166 respondents with secundipara parity as many as 90 respondents (54.2%) did not do VIA. 189 respondents with family income >Rp 1.450.000,00 as many as 110 respondents (58.2%) did not do an VIA. So it can be concluded that there is no significant relationship between parity and family income with IVA behavior (p-value 0.816 and 0.174).

Table 3. The Relationship between Mothers' Characteristic, Knowledge Level, Attitude, and Behavior toward VIA

	7 Ittitud	e, and D	Behavior to	oward VIA			p-value
Variable	Not D	o VIA	Do	VIA	Tot	al	1
	n=192	%	n=158	%	n=350	%	
Age							
< <u><</u> 35 years	45	54.9	37	45.1	82	100	
> 35 years	147	54.9	121	45.1	268	100	
Parity							
Nulipara	3	50	3	50	6	100	
Primipara	48	57.8	35	42.2	83	100	0.016
Sekundipara	90	54.2	76	45.8	166	100	0.816
Multipara	51	53.7	44	46.3	95	100	
Education Level							
Basic	57	62.6	34	37.4	91	100	
Medium	102	53.4	89	46.6	191	100	0.024*
High	33	48.5	35	51.5	68	100	
Family Income							
> Rp.1.450.000,00	110	58.2	79	41.8	189	100	0.174
< Rp.1.450.000,00	82	51	79	49	161	100	0.174
Knowledge level							
Superior	16	48.5	17	51.5	33	100	
Satisfactory	150	53.2	132	46.8	282	100	0.036*
Unsatisfactory	26	74.3	9	25.7	35	100	
Attitude toward VIA							
Positive	119	62.3	72	37.7	191	100	0.002*
Negative	73	45.9	86	54.1	159	100	0.002*

Multivariate analysis were done to independent variables that have p < 0.002 altogether. The result of multivariate analysis showed in Table 4. Table 4 shows that the results of statistical tests with logistic regression found that the attitude has a p-value of 0.002. This shows that the factor that most influences the behavior toward VIA is the attitude of respondents. Its has a p-value of 0.002>0.05.

	Table 4. Multi	variate A	Analysis R	esult	
				95.0% C.I.for EXP(B)	
	В	Sig.	Exp(B)	Lower	Upper
Attitude toward VIA test	666	.002	.514	.335	788
Constant	.164	.303	1.178		

Prevention of Cervical Cancer on Mother in Yogyakarta, Indonesia (Nanik Setiyawati)

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Cervical cancer could be prevented by screening VIA. The results of abudukadeer A et al showed that women between the age group 31 to 40 years had more awareness about cervical cancer [9]. Respondents older than 30 years have a possibility of having a precancerous lesion is higher than under 30 years of age so that respondents in that age will find it more important to conduct tests VIA [10]. The results of this study found no correlation of age to the prevention behavior of IVA cervical cancer (p=0). The results of this study are in accordance with Gustiana D's study that there was no significant relationship between age and early detection of cervical cancer p=0.306. It can be associated with susceptibility to disease. Age can not be used as a benchmark for a person to prevent cervical cancer. This can be due to ignorance, no complaints, nor do to prevent cervical cancer has not been necessary [11].

The results of previous studies conducted by Yuliwati also showed that there was no significant relationship between age and maternal behavior to check VIA [12]. However, different research results Eva who showed that age has a significant relationship with the knowledge that motivates behavior of women for the early detection of cervical cancer by VIA in the district of Central Bogor p=0.001 [13].

The results of Heni P et al's research showed that parity had a significant relationship to precancerous cervical lesions [14]. While the chi square test results in this study indicate that there is no significant relationship between parity against the IVA behavior p=0.816. The results of this study are inconsistent with Sri Dinengsih research and Erry Sitanggang states that there is a significant relationship between parity or more at risk of developing cervical cancer. Multiparity suspected of causing a decrease in endurance. So it is necessary to do the IVA method to detect early cervical cancer [15].

The level of education a person can support or influence a person's level of knowledge and a low level of education is always related to information and knowledge is limited, the higher one's education the higher one's own understanding and knowledge of information obtained would be even higher [16]. Based on the results of this study indicate that there is a significant relationship between education with VIA behavior p=0.024. This research is in line with research conducted by Yao Jia on several women in the city of Wufeng, China who explained that education affects the implementation of early detection of cervical cancer by 0.00 (p=0.05) with the most characteristics at the low level of education (48.4%) who are willing to carry out early detection of cervical cancer [17]. This is also confirmed by the results of further research by Eva, explains that the education factor has a significant relationship with the level of knowledge possessed by women of childbearing age, where the group of higher education have a proportion of knowledge both larger than the group of secondary education and low [13]. The level of education is one of the factors that determine a person's knowledge and perception of the importance of a case, including the importance of early detection of cervical cancer [18].

The results showed that no significant relationship between family income on behavior IVA p=0.174. The results are consistent with research Gustiana states that there is no relationship to the economic status of cervical cancer prevention behavior (p=0561), research found that respondents with lower economic status also have a good preventive health behaviors [11]. Another study conducted by Wahyuni states that there is no economic status relationship to the behavior of early detection of cervical cancer [19]. Socio-economic conditions affecting the health status change process as it affects the thoughts or beliefs that can lead to changes in health behavior. The incidence of cervical cancer is twice as large in women who have low social classes. In contrast to the results of research Febriani CA Women who have high incomes likely better prevention of cervical cancer, compared to women with low incomes [17].

Increased knowledge can change people's behavior from negative to positive, in addition to the knowledge also build trust [11]. Having knowledge of a disease, the concept of a disease will be formed in the individual so that it will determine a person's health behavior [20]. Lack of related knowledge about cervical cancer can be an important factor for the high incidence of cervical cancer [9]. Based on the results of chi-square test showed that there is a relationship with the level of knowledge of the behavior of IVA p=0.036. The results are consistent with research conducted by Yao Jia on women in the town of Wufeng China stated there is a significant relationship between knowledge with behavioral examination early detection of cervical cancer through IVA method with p=0.000 [17]. In addition, research conducted by Nesrin, Turkish women gained knowledge influence the early detection of cervical cancer (p=0.001) [21]. Based on research conducted by Khosidah, good knowledge possessed by women of childbearing age about cervical cancer and its examination can be a motivating factor to try to avoid cervical cancer. Various sources of information that can now be easily accessed by women of childbearing age allow knowledge of cervical cancer and the examination will be better. Lack of knowledge and awareness of the importance of examination is an inhibiting factor for screening for cervical cancer [22].

Attitude is one of the personality elements that a person has to determine his actions and behave towards an object accompanied by positive and negative feelings. Attitudes influence the formation of interest because of the tendency in the subject to accept or reject an object that is good or not [23]. The chi square test

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results show that there is a significant relationship between attitudes toward behavior IVA p=0.002. The results of this study are in line with Febriani CA's research the attitude of adult women in having a significant relationship with the examination of early detection of cervical cancer p=0.025 [18]. TRA explains that beliefs can affect attitudes and social norms which would change the form of the desire well behaved guided or happen in an individual's behavior. This theory confirms the role of one's intention in determining whether a behavior will occur [24].

CONCLUSION 4.

Respondent joined this study were mostlu aged >35 years old, secundipara, medium level of knowledge, family income more than minumum income regional. There is a relationship of education, level of knowledge, and attitudes with cervical cancer prevention behavior. There is no correlation between age, parity, and family income with the mother's behavior on VIA tets. Attitude towards VIA tes is the most affect to behavior of the VIA.

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7. BUKTI KONFIRMASI HASIL REVIEW KETIGA DAN BUKTI REVISI HASIL REVIEW KETIGA (10 NOVEMBER 2018)



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Prevention of Cervical Cancer on Mother in Yogyakarta, Indonesia

Nanik Setiyawati, Niken Meilani Poltekkes Kemenkes Yogyakarta

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1. INTRODUCTION

Cervical cancer cases in 2012 included 528 000 new cases, which have been diagnosed worldwide and 85% occur in less developed areas. Cervical cancer causes 266 000 women to die of cervical cancer every year. Cervical cancer represents 7.5% of all deaths caused by cancer in women. From those data, we know that cervical cancer is a threat for the health that should be pressed down at least until 2030 which consist of currative action to the people living with cervical cancer [1].

Indonesia is the second country in the world after China has the most cervical cancer [1].Based on data from the Ministry of Health in 2015, on average every hour the number of Cervical Cancer sufferers increased by 2.5 people and 1.1 women died of cervical cancer. The prevalence and estimation of cervical cancer patients in 2013 in Indonesia was 0.8 ‰ with an estimated total of 98,692 cases. Riau Islands Province, North Maluku Province, and D.I.Y Province (Yogyakarta Special Region) have the highest prevalence of cervical cancer which is 1.5 ‰ with a total of 2,703 cases [2].

Prevention of cervical cancer can be done by performing an early cervical health examination (screening), because symptoms of cervical cancer are not seen until the stage is more severe [3].High-quality screening with cytology (Papanicolaou [Pap] testing) has markedly reduced mortality from squamous cell cervical cancer, which comprises 80% to 90% of cervical cancers [4-6].Examination of early detection of cervical cancer with VIA is a visual examination of the cervix using vinegar, meaning seeing the cervix with the naked eye to detect abnormalities after applying acetic acid or vinegar (3-5%).

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To improve the implementation of prevention and early detection of cancer in women in Indonesia, the government is optimizing the cervical cancer early detection program for the 2015-2019 period. The effort taken was an early detection movement through the method of simultaneous VIA examination in all parts of Indonesia on April 21, 2015. This movement will last for 5 years and it is expected that by 2019 the number of WUS (women of childbearing age) who are carried out early detection reaches 50 percent [2].

On the word of Hae Won Kim and Duck Hee Kim, 2015 that The mothers' awareness and preparedness with respect to the prevention of cervical cancer in their adolescent daughters were low and inadequate. Mothers should be informed and motivated to play a role in the education of their daughters regarding cervical cancer prevention. Strategies for disseminating information regarding early cervical cancer prevention for adolescent girls are recommended by communicating with both the girls and their mothers and providing them with education regarding cervical cancer prevention [7]. This study aims to determine the factors that influence mother in behavior of cervical cancer prevention.

2. RESEARCH METHOD

This study used analytic survey with cross-sectional design. This study conducted on housewives in the Kota Yogyakarta and Sleman who were members of the Family Empowerment and Welfare amounting to 350 people. This study was conducted in 2016. The population target in this study was housewives who were members of the Family Empowerment and Welfare to manage the confounding variables. To determine the sample size, we used the formula for sample size with calculation of proportion as per Lemeshow with minimum sample size obtained was 350 respondent. Proportional sampling was used to determine the sample chosen. Variables in this study used the theoritical framework approach of Theory of Precede-Proced (Lawrence Green) [8]. Independent variable consist of the characteristic of respondent (age, parity, education, family income), knowledge level about VIA, and mother' attitude toward VIA. The dependent variable was cervical cancer prevention behavior in mother. This study took primary data. Instrument used in this study was quetionaire. Quetionaire used was development from questionaire about mothers' knowledge, attitude and behavior toward VIA which have been tested the validity and reliability at Bantul district.

3. RESULTS AND ANALYSIS

This study conducted on 350 respondent was housewives were members of the Family Empowerment and Welfare. The characteristic of the respondent showed in Table 1.Table 1 shows that the major proportion of respondents were aged >35 years old (76.6%), with the highest parity was secundipara in the amount of 166 respondents (47.5%). More than half of the respondents with secondary education amounted to 191 respondents (54.6%). Family income >Rp. 1.450.000,00 as many as 189 respondents (54%).

Table 1. Respondent's Characteristic				
Characteristic	Amount (n=350)	Percentage (%)		
Age				
<35 years	82	23.4		
>35 years	268	76.6		
Parity				
Nulipara	6	1.7		
Primipara	83	23.7		
Secundipara	166	47.5		
Multi gravida	95	27.1		
Education				
Basic	91	26.0		
Medium	191	54.6		
High	68	19.4		
Family Income				
> Rp.1.450.000,00	189	54.0		
Rp.1.450.000,00	161	46.0		

Table 2 shows that most respondent have not enough knowledge about VIA (80.6%). There are still 35 respondents (10%) with a lack of knowledge, the role of health workers is needed in providing insight to mothers regarding early detection of cervical cancer (VIA). Most respondent have positive attitude toward VIA (54.6%). The behavior of the VIA inspection there are 192 respondents (54.9%) for not VIA.

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Table 2. Mothers' Knowledge L	evel. Attitude, and Bel	navior toward VIA Test				
Characteristic Amount (n=350) Percentage (%)						
Knowledge level about VIA						
Good	33	9.4				
Adequate	282	80.6				
Poor	35	10.0				

191

159

158 192 54.6

45.4

45.1 54.9

Mothers' attitude toward VIA

Negative Mothers' behavior toward VIA

Positive

Do VIA Not Do VIA

Bivariate analysis was used to analyze independent and dependent variables. The relation between independent and dependent variables are showed in Table 3. Table 3 shows that factors relating to the behavior of VIA with a p-value <0.05 was educational p=0.024, p=0.036 level of knowledge, and attitudes toward VIA inspection p=0.002. 268 respondents with age>35 years as many as 147 respondents (54.9%) did not do VIA. 166 respondents with secundipara parity as many as 90 respondents (54.2%) did not do VIA. 189 respondents with family income >Rp 1.450.000,00 as many as 110 respondents (58.2%) did not do an VIA. So it can be concluded that there is no significant relationship between parity and family income with IVA behavior

(p-value 0.816 and 0.174).

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Table 3. The Relationship between Mothers' Characteristic, Knowledge Level, Attitude, and Behavior toward VIA

	Behavior toward VIA			p-value				
Variable	Not Do VIA		Do VIA		Tot	Total		
	n=192	%	n=158	%	n=350	%		
Age								
<35 years	45	54.9	37	45.1	82	100		
> 35 years	147	54.9	121	45.1	268	100		
Parity								
Nulipara	3	50	3	50	6	100		
Primipara	48	57.8	35	42.2	83	100	0.916	
Sekundipara	90	54.2	76	45.8	166	100	0.810	
Multipara	51	53.7	44	46.3	95	100		
Education Level								
Basic	57	62.6	34	37.4	91	100		
Medium	102	53.4	89	46.6	191	100	0.024*	
High	33	48.5	35	51.5	68	100		
Family Income								
> Rp.1.450.000,00	110	58.2	79	41.8	189	100	0.174	
<rp.1.450.000,00< td=""><td>82</td><td>51</td><td>79</td><td>49</td><td>161</td><td>100</td><td>0.174</td></rp.1.450.000,00<>	82	51	79	49	161	100	0.174	
Knowledge level								
Superior	16	48.5	17	51.5	33	100		
Satisfactory	150	53.2	132	46.8	282	100	0.036*	
Unsatisfactory	26	74.3	9	25.7	35	100		
Attitude toward VIA								
Positive	119	62.3	72	37.7	191	100	0.002*	
Negative	73	45.9	86	54.1	159	100	0.002	

Multivariate analysis were done to independent variables that have p <0.002 altogether. The result of multivariate analysis showed in Table 4.Table 4 shows that the results of statistical tests with logistic regression found that the attitude has a p-value of 0.002.This shows that the factor that most influences the behavior toward VIA is the attitude of respondents. Its has a p-value of 0.002>0.05.

Table 4.	Mult	ivariate	Anal	ysis	Result	
				-		

				95.0% C.I.for EXP(B)	
	В	Sig.	Exp(B)	Lower	Upper
Attitude toward VIA test	666	.002	.514	.335	788
Constant	.164	.303	1.178		

Prevention of Cervical Cancer on Mother in Yogyakarta, Indonesia (NanikSetiyawati)

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Cervical cancer could be prevented by screening VIA. The results of abudukadeer A et al showed that women between the age group 31 to 40 years had more awareness about cervical cancer [9]. Respondents older than 30 years have a possibility of having a precancerous lesion is higher than under 30 years of age so that respondents in that age will find it more important to conduct tests VIA [10]. The results of this study found no correlation of age to the prevention behavior of IVA cervical cancer (p=0). The results of this study are in accordance with Gustiana D's study that there was no significant relationship between age and early detection of cervical cancer p=0.306. It can be associated with susceptibility to disease. Age can not be used as a benchmark for a person to prevent cervical cancer. This can be due to ignorance, no complaints, nor do to prevent cervical cancer has not been necessary[11].

The results of previous studies conducted by Yuliwati also showed that there was no significant relationship between age and maternal behavior to check VIA[12]. However, different research results Eva who showed that age has a significant relationship with the knowledge that motivates behavior of women for the early detection of cervical cancer by VIA in the district of Central Bogor p=0.001 [13].

The results of Heni P et al's research showed that parity had a significant relationship to precancerous cervical lesions[14]. While the chi square test results in this study indicate that there is no significant relationship between parity against the IVA behavior p=0.816. The results of this study are inconsistent with Sri Dinengsih research and Erry Sitanggang states that there is a significant relationship between parity with IVA inspection. A third parity or more at risk of developing cervical cancer. Multiparity suspected of causing a decrease in endurance. So it is necessary to do the IVA method to detect early cervical cancer [15].

The level of education a person can support or influence a person's level of knowledge and a low level of education is always related to information and knowledge is limited, the higher one's education the higher one's own understanding and knowledge of information obtained would be even higher [16]. Based on the results of this study indicate that there is a significant relationship between education with VIA behavior p=0.024. This research is in line with research conducted by Yao Jia on several women in the city of Wufeng, China who explained that education affects the implementation of early detection of cervical cancer by 0.00 (p=0.05) with the most characteristics at the low level of education (48.4%) who are willing to carry out early detection of cervical cancer [17]. This is also confirmed by the results of further research by Eva, explains that the education factor has a significant relationship with the level of knowledge both larger than the group of secondary education and low [13]. The level of education is one of the factors that determine a person's knowledge and perception of the importance of a case, including the importance of early detection of cervical cancer [18].

The results showed that no significant relationship between family income on behavior IVA p=0.174. The results are consistent with research Gustiana states that there is no relationship to the economic status of cervical cancer prevention behavior (p=0561), research found that respondents with lower economic status also have a good preventive health behaviors [11]. Another study conducted by Wahyuni states that there is no economic status relationship to the behavior of early detection of cervical cancer [19]. Socio-economic conditions affecting the health status change process as it affects the thoughts or beliefs that can lead to changes in health behavior. The incidence of cervical cancer is twice as large in women who have low social classes. In contrast to the results of research Febriani CA Women who have high incomes likely better prevention of cervical cancer, compared to women with low incomes [17].

Increased knowledge can change people's behavior from negative to positive, in addition to the knowledge also build trust [11]. Having knowledge of a disease, the concept of a disease will be formed in the individual so that it will determine a person's health behavior[20]. Lack of related knowledge about cervical cancer can be an important factor for the high incidence of cervical cancer [9]. Based on the results of chi-square test showed that there is a relationship with the level of knowledge of the behavior of IVA p=0.036. The results are consistent with research conducted by Yao Jia on women in the town of Wufeng China stated there is a significant relationship between knowledge with behavioral examination early detection of cervical cancer through IVA method with p=0.000 [17]. In addition, research conducted by Nesrin,Turkish women gained knowledge influence the early detection of cervical cancer (p=0.001) [21]. Based on research conducted by Khosidah, good knowledge possessed by women of childbearing age about cervical cancer and its examination can be a motivating factor to try to avoid cervical cancer. Various sources of information that can now be easily accessed by women of childbearing age allow knowledge of cervical cancer and the examination will be better. Lack of knowledge and awareness of the importance of examination is an inhibiting factor for screening for cervical cancer [22].

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Attitude is one of the personality elements that a person has to determine his actions and behave towards an object accompanied by positive and negative feelings. Attitudes influence the formation of interest because of the tendency in the subject to accept or reject an object that is good or not [23]. The chi square test results show that there is a significant relationship between attitudes toward behavior IVA p=0.002. The results of this study are in line with Febriani CA's research the attitude of adult women in having a significant relationship with the examination of early detection of cervical cancer p=0.025[18]. TRA explains that beliefs can affect attitudes and social norms which would change the form of the desire well behaved guided or happen in an individual's behavior. This theory confirms the role of one's intention in determining whether a behavior will occur [24].

4. CONCLUSION

Respondent joined this study were mostlu aged >35 years old, secundipara, medium level of knowledge, family income more than minumum income regional. There is a relationship of education, level of knowledge, and attitudes with cervical cancer prevention behavior. There is no correlation between age, parity, and family income with the mother's behavior on VIA tets.Attitudetowards VIA tes is the most affect to behavior of the VIA.

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