BUKTI KORESPONDENSI ARTIKEL JURNAL KESEHATAN MASYARAKAT NASIONAL

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Penulis : Yuni Kusmiyati

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Korespondensi Tanggal 23 November 2018

Duration of Hormonal Contraception and Risk of Cervical Cancer

Lama Penggunaan Kontrasepsi Hormonal dan Kejadian Kanker Serviks

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The use of long homound contenceptive can disrupt the balance of estrogen in the body, resulting in abnormal cell changes. This study aimed to determine a contradition between the duration of homound contemption and fine of cervical cancer. A case-control study was conducted on 190 in female patients in Dr. was consistent of the control of the contr

Keywords: Cervical cancer, duration than 5 years, hor

Results

This research was conducted at Dr. Sardjino. Total of subjects who participated in the study was 190 subjects 095 for case group women who were diagnosted with coveral camore, and 95 for the counted group (comme who did not have covared camore or Figs masser stats were negative). The duration of homostal concursacytive use (redoction, pills and negational) is integered and to vivo, namely concursacytive use (redoction, pills and negation like) in categorised not be row, namely construction of the duration of use homostal construction with cervical camore and other affecting factors.

Variable	Case n (%)	Control n (%)	p-value	OR	954	6 CI
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Hormonal contraception > 5 years	59 (62,1)	26 (27,4)	0.01	4,3	2,35	8,02
" use of pills> 5 years	16 (51,6)	3 (13,0)	0,01	7,1	1,74	28,9
 use of injections > 5 years 	32 (66,7)	13 (35,1)	0,01	3,6	1,49	9.11
" use of implants > 5 years	11 (68,8)	10 (28,6)	0,01	5,5	1,51	19.9
The first age of marriage < 20 years	47 (49,5)	28 (29,5)	0,01	2,3	1,29	4,25
Parity > 3	27 (28,4)	13 (13,7)	0,02	2,5	1,20	5,22
Active Smoking	2 (2,1)	0 (0,0)	0,49	2,0	1,75	2,33
Family history of cancer	2 (2.1)	2 (2.1)	1.00	1,00	0,13	7,24

Table I performs the correlation between duration of use hormonal continuopsion, the first age of marriage, purely, active modeling, family hintery of access with covered most Puration to demonal contamogenia that higher sits, an extension of the continuous and implant have a significant correlation with covicial cancer. Women who the first age of marriage -0.20 years that higher sits 2, bits seed convex of the continuous con

t inherits. However, it is unclear whether the risks are related, with history of inly cancer being due to genetic susceptibility or the influence of the vironmental lifetyless. At present there is a need for counseling introductive true, especially homonal contraception, because high levels of monal contraceptive use by acceptors are thought to be the effect of not vividing extensive information about the advantages and disadvantages of structures are considered to the contractive of the contractive o

Conclusion

Duration of use of contraception hormonal >5 years has a strong correlation with
cervical cancer after controlled by other factors. Method of contraception
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Pengganan kontraspri homosul arkan daput amagangan kentinbangan engan dalam tubuh, shengan amagandan petuhah mel dagi sidak sendal pendah melan dan sebah, shengan amagandan perhaban di dagi sidak sendal pendah melan penganan kontraspri homosul dan ritish kakes sersika Sebuh stadi katus kontraspri homosul dan ritish kakes sersika Sebuh stadi katus kontraspri homosul dan penganan kontraspri homosul dan tubuh kakes sersika di SEU Dr. Sebuh, Sepulat katus kontraspri katus sersika dan kanganganan kontraspri dapendah dan penganan kontraspri homosul dan penganan kontraspri homosul jangka spanjan (dan katus penganan kontraspri homosul jangka spanjan (dan katus sersik dan kangan penganan kontraspri homosul jangka spanjan (dan katus sersika katus penganan kentraspri homosul jangka spanjan (deh dari 5 bama). Jana penganan kentraspri homosul jangka spanjan (deh dari 5 bama) dan penganak kentraspri homosul jangka spanjan (deh dari 5 bama) dan penganak kentraspri homosul jangka spanjan (deh dari 5 bama) dan penganak kentraspri homosul jangka spanjan kentraspri homosul jangka spanjan kentraspri homosul kehi dari 5 bama menganakak kentraspri dari 5 bama setah dikontrol dengan faktor usi perakkan pertasa dan partas.

Kata kunci: Kanker serviks, kontrasepsi hormonal, durasi lebih dari 5 tahun.

Introduction

Introduction are in cause of mentalty among youns in the world and bedominary class of the control of the contro

Corollation between the duration of the use hormonal contraception, the first age of marriage, party, active analogie, family history of more or with coveried caree was analyzed by laptice regenerate using the backward method. The first twp regenerate analysis was performed by bivonize selection. The canadigates nested that the first age of nameing and party has dependent on the care of the contract of the con

Variable	β	p-value	OR	95% CI		
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Use of contraception hormonal >5 years	1.435	0.000	4.2	1.011	5.692	
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Parity >3	0.786	0.052	2.1	2.238	7.880	

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Discussion

Decreasion

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Methods:

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because this mucu viscosity will prolong the estimates of a carcinogenic agent (concercusing) in the corvix which is carried through sexual intercents enclosing the presence of the HPV virus which is the case of corvical concer. The databases of use of guidal contemporities on interest the incident of carried manners and the contemporary of the

Korespondensi Tanggal 13 Mei 2019

Duration of Hormonal Contraception and Risk of Cervical Cancer

Lama Penggunaan Kontrasepsi Hormonal dan Kejadian Kanker Serviks

The use of long homeonal contemprises can disrupt the balance of entrogen in the body, resulting in abnormal cell changes. This study amount to defermine a recording between the duration of homeonal contemptions and risk of cervical cancer. A case-centred study was conducted on 19% from the patients in Dr. was considered to the control of the control cancer and the duration of homeonal contemptions are parties as the cervical cancer and the duration of homeonal contemptions are cervical cancer and the duration of homeonal contemption cancer cleaned from medical results. Data analysis used logistic regressions. Results showed that 4,7% of samples used log-green homeonal contemptions had a significant contemption with the medical contemption had a significant content of the contemption of the contemption of the sample used log-year homeonal contemptions had a significant content with the medicate of cervical cancer may be content of the co

Keywords: Cervical cancer, duration of using, age og marriage, parity, hormonal

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providing extensive information about the advantages and disadvantages of contraception and quality contraceptive services 21

Conclusion

Duration of use of contraception hormonal >5 years has a strong correlation with
convical cancer after controlled by other factors. Method of contraception
hormonal >5 years had 42 times higher (95% CL 101-5.69) for cervical cancer
than use of contraception hormonal >5 years.

Recommendations

For all women who do not want more children, should use non-hormonal long-term contraception. It is necessary to promotion for women or contraceptive acceptors using hormonal up to 5 years.

- References

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ékknepockas Imm apshla lebih dasi 5 tuhun Analisis dan mengmatkan reprei legisis. Hail pendrian menujukkan balwa 44,7% sunyel mengmatkan kontraspis homonal jangka panjang lebih dasi 5 dubun. Lamp mengmatan kontraspis homonal menlaki bindungan yang signifikan dengan lepidain kather kontraspis homonal menlaki bindungan yang signifikan dengan lepidain kather memilik rinish 42 kilo (5% CI 10.15%) omenderia kather sersibi dengan mengmatkan korang dari 5 tuhun setelah ékontrol dengan faktor unis pernakhan pertana dia pristan.

Kata kunci: Kanker serviks, kontrasepsi hormonal, lama penggunaan, usia kawin, naritas

Introduction

Cryvial cancer is a cause of mortally among women in the world and Indonesia." In the world, crevical cancer reads find as the cause of death in domestic." In the world, crevical cancer reads that as the cause of death in developing counties michaling Indonesia, cervical cancer reads highest as the developing counties michaling Indonesia, cervical cancer reads highest as the developing counties michaling Indonesia, cervical cancer reads highest as the cancer princise in almost set with the highest cancer anothered and the appropriate is an area with the highest cancer anothered and early makes an appropriate control of the contro

Data of active family planning participants from 2014 to 2016 showed an easing trend from year to year. Data of active family planning participants to used hormonal contraception was \$1.58% to \$1,97% (injected 47,54%, pills

Mathed:

This study used a crase-control design. Samples were patients who had examined at a came similation, and Johnston-guestology polycline. Do Sargillo Hospial, Vegylarkat, Indoorsa, Case samples were 95 women who were diagnosed with cervical cancey, while the control anaples were 95 women who were diagnosed with cervical cancey, while the control anaples were 95 women excluded if has never used hormous contempores and melectic cerved data is accordant in accordant in accordant in accordant in accordant in the control anaples were where the control contemporary where the control control

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Korespondensi Tanggal 25 Juni 2019

ion of Hormonal Contraception and Risk of Cervical Cancer

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follow-up. Having been diagnosed with cervical cancer can survive 1 year after diagnosis by 62%, 3 years after diagnosis by 39%, and 5 years of diagnosis 30%

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Variable	Case p.(%)	E (%)	p-value	OR	954	CI
					Lower	Uppe
Hormonal contraception == 5 years	59 (62,1)	26 (27,4)	0.01	4,3	2,15	8,02
use of pills 5 years	16 (51,6)	3 (13,0)	0,01	7,1	1,74	28,9
use of injections > 5 years	32 (66,7)	13 (35,1)	0,01	3,6	1,49	9.11
use of implants > 5 years	11 (68,8)	10 (28,6)	0,01	5,5	131	19.9
The first age of marriage < 20 years	47 (49,5)	28 (29,5)	0,01	2.3	1,29	4,25
Parity > 3	27 (28.4)	13 (13,7)	0,02	2.5	1,20	5,22
Active Snoking	2 (2,1)	0 (0,0)	0,49	2,0	1,75	2,33
Family history of cancer	2 (2.1)	2 (2.1)	1,00	1,00	0.13	7,24

Variable	6	p-value	OR	95% CI		
				Lower	Upper	
Use of contraception hormonal >5 years	1.433	0.000	4.2	1.011	5.692	
The first age of married=20 years	0.659	0.046	1.9	0.993	4.847	
Parity >3	0.786	0.052	2.1	2.238	7.880	

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Korespondensi Tanggal 26 Juni 2019

Duration of Hormonal Contraception and Risk of Cervical Cancer

Lama Penggunaan Kontrasepsi Hormonal dan Kejadian Kanker Serviks

The use of long hormonal contraceptive can disrage the balance of entropen in the body, resulting an abnormal cell changes. This study samed to determine a necessariant between the duration of hormonal contraception and risk of cervical cancer. This study used a case-counted design. The population were patients who are carried to the contract of the contract of the contract cancer. This study used a case-counted design. The population were patients who determines and contract were 50 women with a segarite paper passer. Signifigat (with a facility of the contract and contract were 50 women with a segarite paper sears. Signifigat (with a facility of the contract of the contract contract contract and contract were 50 women with a segarite paper sears. Signifigation of hormonal contraception (ever 5 years). Length of use of hormonal contraception last a significant correlation with the medicates of crivical contraception and a significant correlation with the medicates of crivical contraception and a significant correlation with the medicate of crivical contraception and a significant correlation with the medicate of crivical contraception and a significant correlation of the contract contraception and approximately contraception and an approximately contraception and approximately contraception and an approximately contraception and approximately contraception and contraception

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Tabel 1. Correlation of the duration of use hormonal contraception, age of marriage, parity, active smoking, family history of cancer with cervical cancer

Variable	Case n (%)	Control n (%)	p-value	OR	959	CI
					Lower	Uppe
Hormonal contraception > 8 years	59 (62.1)	26 (27.4)	0.01	4.3	2.35	8.02
" use of pills> 5 years	16 (51.6)	3 (13.0)	0.01	7.1	1.74	28.9
" use of injections > 5 years	32 (66.7)	13 (35.1)	0.01	3.6	1.49	9.11
 use of implants > 5 years 	11 (68.8)	10 (28.6)	0.01	5.5	1.51	19.9
The first age of marriage < 20 years	47 (49.5)	28 (29.5)	0.01	2.3	1.29	4.25
Parity > 3	27 (28.4)	13 (13.7)	0.02	2.5	1.20	5.22
Active Smoking	2 (2.1)	0 (0.0)	0.49	2.0	1.75	2.33
Family history of cancer	2 (2.1)	2 (2.1)	1.00	1.00	0.13	7.24

contraceptive use by acceptors are thought to be the effect of not providing extensive information about the advantages and disadvantages of contraception and quality contraceptive services. 50

Conclusion

Duration of use of contraception hormonal >5 years has a strong correlation with covervical cancer. Method of contraception hormonal >5 years had 4.2 times higher for cervical cancer than use of contraception hormonal >5 years. Other factors such as age at fast marraige and party were statistically settled to cervical cancer while smoking and family history there is no relationship statistically with the incidence of cervical cancer.

Recommendations

For all women who do not want more children, should use non-hormonal long-term contraception. It is necessary to promotion for women or contraceptive acceptors using hormonal up to 5 years.

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jangka panjang Gebih dari 5 tahun). Lama penggunaan kontrasepsi bormonal menukik hubungan yang signifikan dengan kepadan kasker serosik (salas-v-0.01). Eenggunaan kontrasepsi bormonal lebih dari 5 bishun menukik silako -2-kali (95%-C1 101-5%) kasker seroksi dibandupkan menggunakan kurang dari 5 tahun serokal dendadikan dingan untuk dan partai persohalan pertama-

Cervical cancer is a cause of mortality among women in the world and Indonesis. In the world, cervical cancer ranks that as the cause of doubt in common with an estimated doubt are of 15 per 10000 women. Namewhen, in developing countries including indicates, cervical cancer ranks highest to the concerp printers in indonesis inclinated policy of the property of the concerp printers in all domests inclinated policy of the concerp printers in all domests in concerp printers in all domests in concerp printers in a domest in charge the concerp printers in a domestic in the context of the concerp printers in the context of the context of

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Cervical cancer has a long journey from the precamerous stage, takes 10-30
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diagnosis by 62%, 3 years after diagnosis by 30%, and 5 years of diagnosis 50%. According to the entitle of research, beared that the factor that correlates with crovical cancer are easily sexual intercourse it less than 20 years, party is more than 3, and the use of hormound controppies more than 5 years. The trick factors of cervical cancer are low education, indections like inclusions as vagainties, and the control of the control control price usage still needs to be examined. The control of the control c

Table 2. Correlation of duration use hormonal contraception and cervical cancer after

Variable	β	p-value	OR	95% CI	
	,			Lower	Upper
Use of contraception hormonal >5 years	1.435	0.000	4.2	1.011	5.692
The first age of married<20 years	0.659	0.046	1.9	0.993	4.847
Parity >3	0.786	0.052	2.1	2.238	7.880

The result showed that the correlation between the duration of the use hormonal contraception and cervical cancer after consideration of external variables (age of married "20) years and parity "5.) Period of use of contraception hormonal had 4.2 times higher risk of cervical cancer after being controlled with the first marriage age and parity.

Diseasation

It is study found a correlation between duration of use homeousl contemption and correlation contemption and correlation from the strong susceidence in analysis by Older state contemption and corrected cancer. The strong susceidence is marked by Older state to the contemption associated with cervical cancer. The results of this use homeousl contemptions could lead to cervical cancer. The results of this state is supported to the contemption of the contemption cancer and the cervical cancer. As helologically contemption are often found in cervical dysplasis. The use of homeousl contemptions are often found in cervical dysplasis. The use of homeousl contemptions are not league that at all years out charges the balance of integers of the strong of the certain of the contemption of the league that the certain of the contemption of the league that the certain of the cert

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 Parmant S, Secwarto S, Wiedock A, Smither SB, High parity and hormonal contraception use as risk factors for covered cancer in Eat Kalimantan. Security of the Conference of the

Methods:

It is made used a sus-consol design. The Population was pations who had examined at a came annihillion and Johnson's particularly publicate. The Angelie Brophall (Voyakara, Indoorsia and SUE). The restly was controlled in Johnson's patient Brophall (Voyakara, Indoorsia and SUE). The restly was consoled with a way of the supposed with convolution annihillion and produced with the subsequence with circular clauses, which the control angular new 57 women who were causeded if has never used homonal contraception in length of our of homonal contraception, whereas consupers, Indoorpools variable is admired of homonal contraception, whereas consultant to the control of the subsequence of homonal contraception and the subsequence of the subse

This research was conducted at Dr. Sardjino. Total of subjects who participated as the study was 100 subjects (0.5 for case group-woman who were diagnosted with correct account), and 55 for the coursel group (women who did not have cervical cancer or Pap some tests were negative). The duration of homman contraspient we (neglections, palls and implant) in caregoristic flow to two, namely contraspients of the contraspients of t

ments. The process of coviced acreas removal is the replacement of new cults and the stables of cold to the newest to wait the temporary primer in revolutions of the control of the contr

Korespondensi Tanggal 27 Juni 2019

Duration of Hormonal Contraception and Risk of Cervical

Lama Penggunaan Kontrasepsi Hormonal dan Kejadian Kanker Serviks

The use of long hormonal contraceptives can disrupt the balance of estrogen in the body, resulting in abnormal cell changes. This study aimed to determine a correlation between the duration of hormonal contraception and risk of cervical cancer. This study used a case-control design. The population were patients who had examined at a cancer installation and obsteticies-proceedopy polycinic Dr. Saudjio Horpital in 2018. Case samples were 95 women have cervical cancer diagnosis and control were 95 women with a negative pay smear. Sampling, with, random, sampling, Dependent variable erwical cancer and independent variable the duration of hormonal contraception are obtained from medical records. Cervical cancer is assessed by doctor's diagnosis. Data analysis used logistic regression. Results showed that 44.7% of amplies used long-term hormonal contraception (over 5 years). Length cancer (psychological coll). Hormonal contraceptive use more than 5 years after being controlled with the first marriage age and parity.

Keywords: Cervical cancer, duration of using, age 0g marriage, parity, hormonal contraceptives.

Abstrak

Penggunaan kontrasepsi kommonal, yang lama dapat mengganggu keteimbangan estogen dalam mbuka sehangan menghatilkan perubahan tel yang takia moman. Benelisian min bertijian minik menerabah holmagan minis lama penggunaan kontrasepsi hormonal dengan nitako kemier serukk Penelisian min menggunakan desana case-contol Penpulai adalah pasam, yang dipeniska di ministaki kanker dan polikinik obstatir, mekologi Rumah Sakit Dr. Sadinic iahua 2018. Sampel kasus adalah 59 wanta yang didiagnosis kanker serokis di mukontol adalah 59 samia dengan pap mene pengit Penganbahan sampel dengan andon samping. Yanibel dependen lamis serokis dan varisela independen lamis penggunaan, kontrasepsi hormonal dipenoleh dari catam medisi Kanker serokis dan dalah debuganan dangan dalah dari samahan kontrasepsi hormon, jankap angang debuh, dari, Jahuah. Lama sampel menggunakan kontrasepsi hormon, jankap angang debuh, dari, Jahuah. Lama sampel menggunakan kontrasepsi hormon dangang debuh dari satu menghakan kontrasepsi hormon jankap angang debuh dari satu menghak menggunak kontrasepsi hormon lehih dari 5 lahun mendiki ratiks 42 kilo (1967-CI 101-1.5 9) kanker serokis dibandulakan menggunakan kunang dari 5 tahun setelah dikendalikan dengan usia dan paritas pemikahan pertama

Kata kunci Kanker serviks, lama penggunaan, usia menikah, paritas, kontrasepsi ho

p-values were two-tailed and statistical significance level was set as less than 0.05. Ethical approval granted from the Ethica Committee of the Faculty of Medicine, Gadjah Mada University No.KE/KF0561/EC/2018.

This research was conducted at Dr. Sardjito. Total of subjects who participated in the shuly was 190 subjects (95 for case group-women who were disgnosed with cervical cancer), and 55 for the control group (women who did not have cervical cancer of Pap smart tests were negative). The duration of hormonal contraceptive use (nije-tions, pills and implants) is categorized into two, namely more than 5 years and not long if the user is less than 5 years. Table 1 presents the correlation of the duration of use hormonal contraception with cervical cancer and other affecting factors.

Table 1. Correlation of the duration of use hormonal contraception, age of marriage, parity, active smoking, family history of cancer with cervical cancer

Variable	Case n (%)	Control n (%)	p-value	OR	959	6 CI
					Lower	Upper
Hormonal contraception > 5 years	59 (62.1)	26 (27.4)	0.01	4.3	2.35	8.02
" use of pills> 5 years	16 (51.6)	3 (13.0)	0.01	7.1	1.74	28.9
 use of injections > 5 years 	32 (66.7)	13 (35.1)	0.01	3.6	1.49	9.11
use of implants > 5 years	11 (68.8)	10 (28.6)	0.01	5.5	1.51	19.9
The first age of marriage < 20 years	47 (49.5)	28 (29.5)	0.01	2.3	1.29	4.25
Parity > 3	27 (28.4)	13 (13.7)	0.02	2.5	1.20	5.22
Active Smoking	2 (2.1)	0 (0.0)	0.49	2.0	1.75	2.33
Family history of cancer	2 (2.1)	2 (2.1)	1.00	1.00	0.13	7.24

n = Number of Semple: OR = Odds Retio: CT= Contridence Interval

This study showed that the correlation between duration of use hormonal contraception, the first age of marriage, party, active smoking, family history of cancer with cervical cancer. Duration of hormonal contanegation that higher nick 13 haues of cervical cancer than using less than 5 years. Duration of use of pills, injectious and implant have a significant correlation with cervical cancer. Winners who the first age of marriage <20 years had higher nick 2.3 times of cervical cancer. Parity > 3 had higher nick 2.5 times of cervical cancer. There is no significant correlation between active smoking and family history of cancer with cervical cancer.

Introduction

Cervical cancer is a cause of mortality among women in the world and Indonesia.\(^1\) In the world, cervical cancer ranks third as the cause of death in women with an estimated death rate of 15 per 100,000 women.\(^1\) Meanwhile, in developing countries including Indonesia, cervical cancer ranks highert as the most common cause of death among women, about 85% of the cases.\(^1\) Cervical cancer patients in Indonesia estimated 89-100 among 100.000 inhibitants per year.\(^1\) Negolikation is an area with the highest cancer indicates in Indonesia the Indonesia care and the Indonesia care and the Indonesia care and Indones

needs to be examined. 12 Date of same or each normonal contraceptive usage still Date of active family planning participants from 2014 to 2016 showed an increasing tend from year to year. Date of active family planning participants who used hormonal contraception was \$1.58% to \$1.97% (nijected 47.34%, pills 22.58%, miplans 10.46%). 17 he purpose of this study was to determine the relationship between the utation of formonal countexplosin use and the incidence of cervical cancer and knowing other factors related to cervical cancer modificae.

Methods

As the day of the control design. The Population were patients who had examined at a cancer installation and obsterior-gynecology polyclinic Dr. Sardjito Hospital Yogyskart, Indonesis in 2018. The study was conducted in July 2018. Sampling with, gandom, sampling, Case samples were 95 women who were diagnosed with evervical cancer, while the control samples were 95 women who do not have cervical cancer (Pap smart tests were negative). Oblighets were excluded if han never used hormonal contraception, and control of the control samples were 95 women who do not have cervical cancer (Pap smart tests were negative), oblighets were excluded if han never used hormonal contraception, whereas the dependent variable is cervical cancer. Cervical cancer is assessed by dorfor's diagnosis. The duration of hormonal contraception and contraception (injections, pills and implants) is categorized into two, annealy more than 3 years and not long if the user is less than 5 years. The data were based on diagnosis recorded in the medical record. A possible confounders were marriage age less than 20 years, family history of cancer, active smoking, and parity more than 3. For statistical analysis, the bivariate analysis used chi-square tests, and the multivariate analysis used logistic represents. The p-value of the likelihood ratio to the chi-square was used as a guide to the model's goodness of fit. All

Correlation between the duration of the use hormonal contraception, the first age of marriage, pairly, active smoking. Insuly history of cameer with cervical cameer was analyzed by logistic regressions unalysis was performed by bivariate selection. The canadidate, entered in multivariate analysis are variables with p-value < 0.20 m. The analysis showed that the first age of marriage and pairly had p-value < 0.20 while active smoking. Insuly history of cameer had p-value > 0.250, so they were not included in the multivariable selection.

Table 2. Correlation of duration use hormonal contraception and cervical cancer after consideration of external variables

Variable	β	p-value	OR	95% CI	
				Lower	Upper
Use of contraception hormonal >5 years	1.435	0.000	4.2	1.011	5.692
The first age of married<20 years	0.659	0.046	1.9	0.993	4.847
Parity >3	0.786	0.052	2.1	2.238	7.880

The result showed that the correlation between the duration of the use hormonal contraception and cervical cancer after consideration of external variables (age of married <20 years and parity >3). Period of use of contraception hormonal had 42 times higher risk of cervical cancer after being controlled with the first marriage age and parity.

Discussion

This study found a correlation between duration of use hormonal contraception and carvical cancer. This strong association is marked by Odds ratio (OR) of 4.2. These results is same as or support the previous study that duration of use hormonal contraception associated with cervical cancer. The results of finis study support previous studies among others, a study who stated that long-term use of hormonal contraception could lead to cervical cancer. A biologically plausible mechanism for this relationship is hormonal contraceptives acted as a tool that convolided the growth of neoplasms. The acceptance who use hormonal contraceptives are often found in cervical dates are considered to the contraceptive of the contraceptive and the study of the contraceptive of the

HPU: "
Use of hormonal contraception, causes mucus viscosity in the cervix due to oral hormonal contraceptive use or injection will support cervical cancer. This is because this mucus viscosity will prolong the existence of a carcinogenic agent (cancer-causing) in the cervix which is carried through sexual intercourse including the presence of the HPV virus

which is the cause of cervical cancer. The duration of use of implant contraceptives can increase the incidence of cervical cancer considering the mechanism of hormones in the implant to thickness cervical much. The process of cervical amour removal is the replacement of new cells and the addition of cells to the cervix to prevent the entry of sperm. If cervical mucus thicknessing occurs continuously and uncontrollably, the thicknessing will become abnormal which can lead to cervical cancer the immature will experience changes and can diamage cells in the cervix.

The control of the cervix of the cervix to prevent the entry of affect cervical ophthelial instructions of the cervix of the cervix

Conclusion

Duration of use of contraception hormonal >5 years has a strong correlation with cervical
cancer. Method of contraception hormonal >5 years has 4.2 times higher for cervical cancer
than use of contraception hormonal <5 years. Other factors such as age at first marriage and

parity were statistically related to cervical cancer incidence while smoking and family history there is no relationship statistically with the incidence of cervical cancer.

Recommendations

For all women who do not want more children, should use non-hormonal long-term
contraception. It is necessary to promotion for women or contraceptive acceptors using
hormonal up to 5 years.

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Korespondensi 3 Juli 2019

Duration of Hormonal Contraception and Risk of Cervical Cancer

Lama Penggunaan Kontrasepsi Hormonal dan Kejadian Kanker Serviks

The use of long hommes commension continued to discrete the believe of energies in the body, resulting its element dot indepen. The sort of send of determine a consistent between the result of the continued to the continued to

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Model:

This study used a convented design. The Population was patients who had received at a convented them and content of precision growing products. The destin Benderic American and content of precision growing products of the destination of the content of t

p-values were two-tailed and statistical significance level was set as less than 0.05. Ethical approval granted from the Ethica Committee of the Faculty of Medicine, Gadjah Mada University No.KE/KF/0581/KC/2018

This research was conducted at Dr. Sardjino. Total of nobjects who participand in the study was 100 robjects (35 for case group-women who were diagnosed with cervical cascet), and 25 for the control group (weems with off does there cervical carce of page more than the control of the control of page of page with the control of page o

Variable	D (%)	n (%)	р-толе	OK	95% C1	
Hormonal contraception > 5 years	59 (62.1)	26 (27.4)	0.01	43	2.33	8.02
use of pills: 5 years	16 (51.6)	3 (13.0)	0.01	7.1	1.74	28.9
use of injections > 5 years	32 (66.7)	13 (35.1)	0.01	3.6	1.49	9.11
use of implants > 5 years	11 (68.8)	10 (28.6)	0.01	5.5	1.51	19.9
The first age of marriage < 20 years	47 (49.5)	28 (29.5)	0.01	2.3	1.29	4.25
Parity > 3	27 (28.4)	13 (13.7)	0.02	2.5	1.20	5.22
Active Smoking	2 (2.1)	0 (0.0)	0.49	2.0	1.75	2.33
Family history of cancer	2 (2.1)	2 (2.1)	1.00	1.00	0.13	7.24

This study showed that the containion between dustion of use homesand commongation, the first speed manning parity, asire sensities, family history of cancer with correct (cancer. Dustine of homesand commongation had higher sink a 'limited or servicel cancer than using into stan it years. Dustine of one of glink, injections and implain have a haddle price of the price with certain dama of the price of the

Correlation between the duration of the use hommonal commorphion, the first age of marriage, parity, active modeling, family hastory of cancer with cervical cancer was analyzed by Jegantic repetition using the delactivate method. The desired are transpared using the delactivate method. The candidates entered in multivaries employe are variable with produce 2 of 20.10. The analyzed showed that the fart age of marriage and party halp produce 20.20 while active smoking, family history of cancer had p-value > 0.200, to they were not included in the multivariable relactions.

Variable	β	p-value	OR	95% CI	
				Lower	Upper
Use of contraception hormonal >5 years	1,435	0.000	4.2	1.011	5.692
The first age of married<20 years	0.659	0.046	1.9	0.993	4.843
Burity > 3	0.786	0.052	2.1	2.238	7.880

The result showed that the correlation between the dustion of the use hormonal contraception and cervical cancer after consideration of external variables (age of married <00 years and parity >3). Pariod of tuse of contraception hormonal had 4.2 times higher risk of cervical cancer after being controlled with the first marriage age and parity.

which is the mass of serious cours. The denotion of our of implies connections the anothers of cervical cours considering the exclusions of heardest in the singleter thinking servical musts. The process of cervical course ments of a fine registerate to the course that and course of the process of cervical must are more of a fine registerate mount at thicking course continuously and counterfalling the course of the counterfalling the course of the counterfalling the counterfalling and another counterfalling the counterfalling to confidence of the registerate view will not convenie bending to confidence of the counterfalling to confidence of the registerate view will not convenie bending to confidence of the counterfalling to confidence of the register converse of the counterfalling to confidence of the counterfalling to confidence of the register confidence of the counterfalling to the counterf

study also has limitations. The limitations of this study are data sources of homenand continequivieus and cervical concer only from medical record data. The use of this medical record data. The use of this medical record can cause a condifferential microbialismic has that not suffice the coursey of the disease (cervical cancer) and exposure (duration of homenand contraception) data. To ensure the accuracy of the data. The researches that disease (cervical cancer) and exposure (duration of homenand contraception) data. To ensure the accuracy of the data. Enterested has distributed to this buy becomes it aprices of mixture to the content of the contract of the data of th

- Hoference D. Regiond R. Kiman R. Falter-falter vorg behalvenger degen basis before from the Part of th

which is the cause of cervical cancer. The duration of use of impliant contraceptives can increase the incidence of cervical cancer considering the mechanism of hormones in the impliant to finction corvical mucus. The process of corvical mucus embourd in the replacement of new cells and the addition of cells to the cervix to prevent the entry of sperm. If cervical mucus thickening occurs continuously and uncontrollably, the thickening will become abnormal which can lead to cervical cancer the immature will experience changes and can domain the control of the control of the cervical cancer incidence. Sexual intercourse that is early can affect cervical epithelial insuedanage or the variant explaint and can worsen leading to cell abnormalise that result in abnormal growth. Women who begin sexual intercourse age <20 years is more at risk of developing cancer cervix. It is because in the young adult period the process of squamous cell metaplasa is substantially increased so the risk of appriad a squamous transformation increases which then becomes corrical interpolates and special soft (18). The results of this study in accordance with previous studies showing women who had sexual intercourse for the exposure of the future to the HPV will result in growth deviating into preconcerous cervacial cancer. Married age can be associated with age-related. At the age of the genital device that is not yet mature and has been used to connect it will damage the crevical epithelial studies in the state of the control of the parties and has been used to connect will damage the crevical epithelial studies and has been used to connect it will damage the crevical epithelial studies and has been used to connect will admage the crevical epithelial studies and has been used to connect will take the protein of the

Conclusion

Duration of use of contraception hormonal >5 years has a strong correlation with cervical
cancer. Method of contraception hormonal >5 years had 4.2 times higher for cervical cancer
than use of contraception hormonal <5 years. Other factors such as age at first marriage and

parity were statistically related to cervical cancer incidence while smoking and family history there is no relationship statistically with the incidence of cervical cancer.

Recommendations

For all women who do not want more children, should use non-hormonal long-term contraception. It is necessary to promotion for women or contraceptive acceptors using hormonal up to 5 years.

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