JURNAL BERKALA EPIDEMIOLOGI

Volume ____Nomor ____ (Tahun) Halaman

DOI: nomer id/ibe.v.i... Tahun, balaman
p-ISSN: 2301-7171; e-ISSN: 2541-092X

Website: http://journal.unair.ac.id/index.php/JBE/ Email: ibenid@s



INCREASING THE USE OF VOLUNTARY COUNSELING AND TEST (VCT) THROUGH IMPROVEMENT OF SUPPORT AND FAMILY HEALTH CARE

PENGUATAN PEMANFAATAN *VOLUNTERY COUNSELING AND TEST (VCT*) MELALUI PENINGKATAN DUKUNGAN DAN FUNGSI PERAWATAN KESEHATAN KELUARGA

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ARTICLE INFO

Article History: Received Revised form Accepted Published online

Keywords: Family support; Health Care Function;

ABSTRAK

Background: The transmission of Human Immunodeficiency Virus (HIV) from mother to baby is now increasing along with the increased number of HIV-infected women. Pregnant women with HIV can be a threat to the safety of fetus in the womb as transmission of HIV may occur from a mother to her baby. **Purpose:** This study aimed to identify the support and health care function for pregnant women in using the voluntary counseling test (VCT). **Methods**: This study employed a cross-sectional research design. The samples were 108 respondents recruited using a probability sampling technique,

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INTRODUCTION

According to UNAIDS (Joint United Nation Programme on HIV and AIDS) said at the end of 2017 there were more than \$6.9 of the world million people live with HIV (\$5.1 million people adults and \$1.8 million clidren), \$1.8 million cases new HIV, and 940,000 people in the world died of HIV ||AIDS. HIV cases in Indonesia in 2017 there were 630.00 people living with HIV, with a were 630.00 people living with HIV with a number of new cases amounted to 49,000 people and the number of people who died of AIDS as many as 39,000 people. (UNAIDS, 2018). Based on data in the world for the year 2017, found 59% on data in the world for the year 2017, found 59% of all people were living with HIV accessing treatment with details; 59% of adults aged ≥ 15 years living with HIV have access to treatment, and 52% of children are aged 0-14 years. In addition, 65% of adult women ≥ 15 years old has access to care, only 53% of adult men are aged 15 years and older have access. In 2017 it was also

years and older have access. In 2017 it was also found that, 80% pregnant women living with HIV have access to antiretroviral drugs to prevent HIV transmission to their babies [UNAIDS, 2018).]

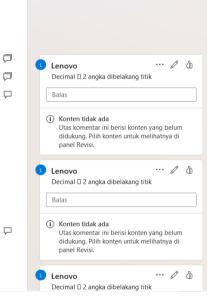
The increasing epidemic of AIDS in Indonesia may occur due to the growing proportion of AIDS cases in women, which will undoubtedly lead to an increased number of babies infected with HIV in the community. Bali province ranks fifth after West Java, East Java, Papua, and

Jakarta for the number of people with AIDS. Bali also ranks second after Papua in terms of the disease prevalence (the comparison between the number of cases and the number of population). The number of HIV cases in Bali tends to increase and is mostly found at reproductive age. In 2012, the prevalence of HIV was higher in females than males: there were 414 new cases in women and 340 new cases in men. The higher number of HIV sass in finales occurred as many housewives who were initially included in high-risk groups were already found positive with HIV (Dinkes Provinsi Ball; 2013).

HIV / AIDS is the main cause reproductive

age deaths in some developing countries. Pregnant women with HIV can transmitted the virus to her baby through the process of pregnancy, childbirth or breastfeeding. If during the process of transmission not intervened increase transmission transmission not intervened increase transmission from mother to the baby as much as 14-15%. In Indonesia itself, found the number of women aged ≥ 15 the year of living with HIV is 220,000 and the number of children living with HIV is 13,000. (UNAIDS, 2017) This number will continue increase along with increasing prevalence of women aged 15-49 years who suffering from HIV then the risk can be increase the number of children with HIV / AIDS. Therefore the government implements HIV transmission prevention programs from mothers to children

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networks and communications inside and outside public PHC, external policy and incentives, leadership sugagement and access to knowledge and information.

and information.

The results of the preliminary study showed that 40 pregnant women visited the public health senter monthly, and 13 of them were willing to do the VCT. This study was conducted directly in the community by the researchers and was not limited to the health care centers such as public health centers.

METHODS

This research was conducted in Gianyar regency. from March to September 2019. According to Nursalam (2011), the population is every subject that meets the specified criteria. In this study, the population was the families with pregnant women living in the area of Gianyar Regency. The samples were 108 respondents recruited using a probability sampling technique. i.e. multi-stage sampling. The inclusion criteria were the families with pregnant women in the first to the third trimester. The families with pregnant women signed an informed consent to show their agreement to participate in the study.

The data were collected from respondents through a questionnairs. Respondents completed the questionnairs when they had their ANC in the health care facilities. The researchers also did home visits to families with pregnant women in Gianyar regency for the data collection. A bivariate analysis was performed on two variables that were assumed to have a relationship. The independent variables in this study are Family Support and Family Health Care Functions. The dependent variable in the study was the Utilization of VCT Health Service Facilities. This research has been passed the ethical clearance of the Faculty of Medicine of Udayana University Sanglab, Central General Hospital by number 2921/UN14.2.2.VII.14(LP/2019.

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The unpaired Chi-square test with a 95% confidence level was used in the analysis for categorical data of the independent and dependent variables. Multivariate analysis involving several confounding variables was performed using the multiple logistic regression test.

RESULTS

The analysis in this study explained the relationship between family support and health care function in using VCT in Gianyar regency.

Table 1

Table 2
Family Health Care Function in Using VCT in Gianyar Regency in June 2019 (n = 108)

	Use	Use of VCT						
Health Care Function	No	No.		Yes			p-value	
	n	%	n	%	n	%	_	
Less	5	17.24	24	82.76	29	26.85		
Good	0	0	79	100.00	79	73.15	0.00	
Total	5	4.63	103	95.37	108	100.00		

| Table 3 | | Results of Multivariate Analysis of the Variables and Use of VCT in Gianyar Regency in June 2019

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Pada tabel ini muncul variabel "maternal age" dan "gestational age" namun pada variebel sebelumnya tidak ada, mohon ditambahkan

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Mohon tambahkan definisi operasional dari variebel yang diteliti misal:

Mana penjelasan atau narasi dari dari tabel 1-3?

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Judul tabel dan tabel tidak boleh terpisah
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Wald	p- value	Exp(B) OR
0.112	0.737	1.044
0.968	0.325	0.932
0.000	0.996	122.0
	0.968	0.968 0.325

<u>V</u> ariable	В	Wald	p- value	Exp (B) OR
Constanta: - 0.003				
Maternal age	0.043	0.112	0.737	1.044
Gestational age	-0.070	0.968	0.325	0.932
Family support	18.617	0.000	0.996	122.0
Health care function	17.656	0.000	0.996	465.0

DISCUSSION

The results of the bivariate analysis showed a significant relationship between family support and the use of VCT in Gianyar Regency with a p-value of 0.000 (<0.05). According to Prasetyawati (2011), the most important element in helping individuals to solve problems is family support. As individuals to solve problems is family support. As a result, families will be able to improve their health status and adaptation in life. The results of this study are in line with a study by Kridawati, Sriwitati, and Cicilia (2015), which reported that there was a relationship between family or husband support and the use of HIV test with period. On Family support is a reinforcing factor of behaviors. Furthermore, pregnant women are still dependent on their husband's approval in deciding to use the VCT service. The results of research conducted by Espana Giri, Sri Nopiyani, and Parwati Merati (2017) husband's support influence pregnant women to conduct ANC examination. pregnant women to conduct ANC examination.

ANC examination is mostly done at midwife, practice not to health care center because it considers the medicine given is less effective.

(Mokalu & Purwanto, p.d.) shows that emotional support, appreciation support, instrumental support support, appreciation support, instrumental support and informative support are not good saturgle given by families So that the prevention of HIV / AIDS is less than the maximum can be done. According to the results of research conducted Wanyenze et al. (2018) off the 299 women (42.5%) reported at least one pregnancy, within 24 months: 61 women (48.0%) delivered a live shift. Of the 55 who, had a live birth at the first pregnancy, 54 (98.2%) used antenatal care (ANC starting at 15.5 weeks of gestation on average and 47/49 (95.9%) delivered at a health facility. According to Riskesdas (2018) as much as 70% of the community's knowledge is less about \Box

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According to Sussessias (2018) as much as 70% of the community's, knowledge is less about HIV, this is seen from the results of the correct answer only 7 out of 20 questions were given. The results of other studies conducted by Halim. Syamaulhuda and Aditya (2016) titled the factors related to the behavior of pregnant women in HIV testing in the Halmahera Health Center Work Area of Semarang City showed that pregnant women who did an HIV examination (61.1%) while pregnant women who did not have an HIV check

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The results of research conducted by Karimah and Suyani (2017) show that most pregnant women have more good knowledge about PMTCT, as many as 30 respondents (44.1%). Pregnant women who have enough knowledge about PMTCT are 29 respondents (42.7%) and pregnant women who have less knowledge about PMTCT are 29 respondents (42.7%) and pregnant women who have less knowledge about PMTCT are 29 respondents (42.7%) and pregnant women who have less knowledge about PMTCT are 9 respondents (13.2%). The results of the study based on VCT examination mostly conducted VCT examination namely 57 the study based on VCT examination mostly conducted VCT examination, namely 57 respondents (83.8%) compared to pregnant women who did not do VCT examination. Some respondents did not do VCT examinations this is due to the stigma about HIV sufferers making respondents afraid to do VCT examinations as well as the lack of socialization to prevent HIV transmission from mother to child with early transmission from mother to shild with early detection through VCT examination.

The results of multivariate analysis showed that maternal age and gestational age were proven to be confounding variables that affected support to be confounding variables that affected support and family health care function in using VCT. The maternal age, yariable showed an odds ratio (exp. (B)) of 1.044 indicating that for every one year increases in maternal age, the use of VCT increases, by 1.044 limies. The gestational age variable showed an odds ratio (exp. (B)) of 0.932 This indicates that an additional one month of gestation will cause 0.932 times of the chance not to use involvement of partners during ANC and assistance during the use of health services is a

sabared responsibility between partners.

This study indicated that maternal age and gestational age have a contribution in the use of health care facilities. Varied age of respondents of this study also provides various description of the use of health service facilities. Some pregnant women did not do VCT as they did not have good support from their husband or family. This is in line with research conducted by Ponco et al. (2016), reporting that ANC visits influenced the willingness of mothers to take an HIV test. The more often the women check for their pregnancy. the higher the chance the women have to take an HIV test.

Research Limitation

The limitation of this study was the fact that the house of the respondents was far away apart from each other, and therefore, the researchers took a long time to collect the data.

CONCLUSION

Family support and health care function were found to have an effect on increasing the use of VCT for pregnant women. The results of this study showed that family support and family health care

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90% of cases of children with HIV occur due to mother-to-child transmission (MTCT) (Kemenkes

Prevention The Mother-to-Child Transmission of HIV (PMTCT), a program aimed to prevent mother-to-child transmission of HIV, is rarely implemented even though the Ministry of Health already issued the handbook of the program in 2005. PMTCT is relatively expensive to be conducted, and there are also some controversial issues in nature, such as the replacement of breastfeeding with formula milk for infants and

METHODS

This research was conducted in Gianyar regency from March to September 2019. According to Nursalam (2011), the population is every subject that meets the specified criteria. In this study, the population was the families with pregnant women living in the area of Gianyar Regency. The samples were 108 respondents recruited using a probability sampling technique, i.e., multi-stage sampling. The inclusion criteria \Box



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were the families with pregnant women in the first to the third trimester. The families with pregnant

to the furth trimester. The families with pregnant women signed an informed consent to show their agreement to participate in the study. The data were collected from respondents through a questionnaire. Respondents completed the questionnaire when they had their ANC in the

The unpaired Chi-square test with a 95% confidence level was used in the analysis for categorical data of the independent and dependent variables. Multivariate analysis involving several confounding variables was performed using the multiple logistic regression test.

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Yayasan Pelita Ilmu, Jejak Dua Dekade Yayasan Pelita Ilmu. (2009). Jakarta: Yayasan Pelita Ilmu.

Note:

Blok Kuning = ref. non jurnal Blok Hijau = ref. jurnal belum sesuai ketentuan

Total referensi = 16 → minimal 20 referensi → tambahkan referensi jurnal dgn minimal terbitan 2015 Non Jurnal = 12 →8 referensi yang diblok kuning mohon diganti ke referensi jurnal dgn minimal terbitan

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women tended to show a willingness to do VCT

Notice tented a subtract of the continuence of the ver-during PMTCT programs voluntarily.

Based on the results of research conducted by Srixvitati et al. (2015) 73% of pregnant women did not utilize. HIV testing services. The most dominant variable related to the utilization of HIV dominant variable related to the utilization of HIV testing services is husband or family support (OR 15,419). The results showed respondents who received family support but did not utilize HIV testing services as many as 27 people (42.4%) and respondents who said they did not get family support and did not use HIV testing services as many, as 83 people (96.5%). Research conducted by Hilmeh Violetteria and Arical (2015) coether by Hikmah, Novitasari, and Aniroh (2015) another factor that was most dominant in influencing the tactor that was most dominant in influencing the behavior of pregnant women to screen for HIV / AIDS was occupation with an OR value is 9,278. Research conducted by Ngoma-Hazemba and Ngama (2018) shows that partner support is needed in preventing mother-to-child transmission of HIV. The results of this study indicate that couples are rarely involved in ANC. The

ACKNOWLEDGMENT

The researcher would like to thank the Technical Implementation Unit of Community Health in the area of Gianyar regency and the health care volunteers for helping the researchers in data collection and home visits. The researchers also thank all respondents who participated in this study.

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Volume Momor — (Tahun) Halaman
DOI: nomer id/jbe.v.i — Tahun balaman
p-ISSN: 2301-7171; e-ISSN: 2541-092X
Website: http://journal.unair.ac.id/index.php/JBE/



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THE UTILIZATION OF VOLUNTERY COUNSELING AND TEST THROUGH SUPPORT AND FAMILY HEALTH CARE FUNCTIONS

Pemanfaatan Voluntery Counseling <u>And</u> Test (VCT) Melalui <u>Peningkatan Dukungan</u> Dan <u>Fungsi</u> <u>Perawatan Kesehatan Keluarga</u>

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ARTICLE INFO

Article History Received Revised form Accepted Published online

Keywords:

Family support; Health Care Function; HIV; Pregnant Women; Family

Kata Kunci:

Dukungan Keluarga; Fungsi Perawatan Kesehatan; HIV: Ihu Hamil Keluarga

ABSTRACT

Background: The transmission of Human Immunodeficiency Virus (HIV) from mother to baby is now increasing with the increase in HIV-infected women. Pregnant women suffering from HIV are a threat to the safety of the fetus's soul in the womb. Purpose: This aims of study to identify the support and function of health care for pregnant women in utilizing voluntary counseling test (VCT) health care facilities. Method: The study was conducted in the working area of the Gianyar Regency health center. The study design uses cross sectional design. A sample of 108 respondents was taken by sectional design. A sample of 10s respondents was taken by probability sampling technique, namely multi-stage sampling. Bivariate data analysis was performed using the Chi Square test and logistic regression in multivariate analysis, Results: The study showed that there was a significant relationship between the variable Support and Function of Family Health Care in Pregnant Women (p-Support and Function of Family Health Care in Pregnant Women (p-value = 0.00) to the Utilization of Voluntery. Counseling Test (VCT). Discussion: Good family support, good health care function, increased maternal age and early gestational age have the opportunity to take advantage of VCT health care facilities rather than the opposite.

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maternal age variable showed an odds ratio (exp (B)) of 1.04 indicating that for every one year increase in maternal age, the use of VCT increases by 1.04 times. The gestational age variable showed an odds ratio (exp (B)) of 0.93. This indicates that an additional one month of gestation will cause an additional one month of gestation will cause 0.93 times of the chance not to use VCT. The results of this study are in line with a study by Muhaimin and Besral (2011), which reported that in the mean age of 27, pregnant women tended to show a willingness to do VCT during PMTCT programs voluntarily.

Based on the results of research conducted by Stripting 14 (2015) 728 of pregnant women and the programs of th

Sriwitati et al. (2015) 73% of pregnant women did not utilize HIV testing services. The most dominant variable related to the utilization of HIV testing services is husband or family support (OR 15.419). The results showed respondents who 15,419). The results showed respondents who received family support but did not utilize HIV testing services as many as 27 people (42.40%) and respondents who said they did not get family support and did not use HIV testing services as many as 83 people (96.50%). Research conducted by Hikmah, Novitasari, and Aniroh (2015) another factor that was most dominant in influencing the behavior of pregnant women to screen for HIV / AIDS was occupation with an OR value is 9,28 Research conducted by Ngoma-Hazemba and Ncama (2018) shows that partner support is needed in preventing mother-to-child transmission of HIV. The results of this study indicate that couples are rarely involved in ANC. The couples are rarely involved in ANC. The involvement of partners during ANC and assistance during the use of health services is a shared responsibility between partners.

This study indicated that maternal age and

CONCLUSION

Family support and health care function were found to have an effect on increasing the use of VCT for pregnant women. The results of this study showed that family support and family health care function could encourage pregnant women to use VCT health care facilities

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CONFLICT OF INTEREST

This research shows that so far the utilization of health services for VCT has been carried out in the community. The policy of providing free services for pregnant women in conducting HIV and AIDS screening is still an obstacle in some places because they are afraid to conduct the examination until they do not know that there is an examination that can be done free of charge, so the achievement of VCT utilization rates in the community has not met the target. The result of this study can identify the support and function of family health care in the utilization of VCT health services.

AUTHOR CONTRIBUTION

It is explained about individual author contributions. All those who meet the authorship criteria are listed as writers, i.e. all authors declare that they are participating actively in research and article writing and partly responsible for the content of writing, including in the preparation and writing of concepts, designs, analysis, or revision of the article. The role(s) of all authors should be listed. Example ZS: Conceptualization,

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couples are rarely involved in ANC. The involvement of partners during ANC and assistance during the use of health services is a

shared responsibility between partners.

This study indicated that maternal age and gestational age have a contribution in the use of health care facilities. Varied age of respondents of this study also provides various description of the use of health service facilities. Research conducted Sitopu (2018) shows a significant relationship between knowledge and the use of VCT services. between knowledge and the use of VC1 services. The higher the knowledge of pregnant women, the better the utilization of VCT services. Some pregnant women did not do VCT as they did not have good support from their husband or family. This is in line with research conducted by Ponco et al. (2016), reporting that ANC visits influenced the willingness of mothers to take an HIV test. The more often the women check for their pregnancy, the higher the chance the women have to take an

Research Limitation

The limitation of this study was the fact that the house of the respondents was far away apart from each other, and therefore, the researchers took a long time to collect the data

CONCLUSION

Family support and health care function were found to have an effect on increasing the use of VCT for pregnant women. The results of this study showed that family support and family health care function could encourage pregnant women to use VCT health care facilities

CONFLICT OF INTEREST

This research shows that so far the utilization of health services for VCT has been carried out in the community. The policy of providing free services for pregnant women in conducting HIV and AIDS screening is still an obstacle in some places because they are afraid to conduct the

AUTHOR CONTRIBUTION

Conceptualization. Methodology: Ni Putu Wiwik Oktaviani, Ni Luh Putu Devhy, I Made Sudarma Adiputra, Ni Wayan Trisnadewi. Data curation: Ni Putu Wiwik Oktaviani, Ni Luh Putu curation: Ni Putu Witwik Oktaviani, Ni Luh Putu Devhy, I Made Sudarma Adiputra, Ni Wayan Trisnadewi. Formal analysis : I Made Sudarma Adiputra, Ni Putu Witwik Oktaviani. Project administration: Ni Luh Putu Devhy, Ni Wayan Trisnadewi. Resource: Ni Putu Witwik Oktaviani, Irisnadewi. Resource: Ni Putu Witwik Oktaviani, Ni Luh Putu Devhy, I Made Sudarma Adiputra, Ni Wayan Trisnadewi. Supervision: Ni Putu Witwik Oktaviani, Ni Luh Putu Devhy. Writing-Original draft: Ni Putu Witwik Oktaviani Writing-review and editing: Ni Putu Witwik Oktaviani, Ni Luh Putu Devhy, I Made Sudarma Adiputra, Ni Wayan

ACKNOWLEDGMENT

The researcher would like to thank the Technical Implementation Unit of Commu Health in the area of Gianvar district and the health care volunteers for helping the researchers in data collection and home visits. The researchers also thank all respondents who participated in this

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content/uplosus/upun 2018 addi huma 2018 addi Ahmad M, Sri Mulyanti, N. N. (2017). Faktor-faktor yang berhubungan dengan Pemanfaatan Voluntery Counseling and Testting (VCT) pada Ibu Hamil di Wilayah Kerja Puskesmas Karanganyar Kota 1-6. Kerja 1 mm. Tasikmalaya. ''1-i pen/10 1016/i on



4 of Julh Hal Nama Penulis, et al (penulis >1) / Jurnal Berkala Epidemiologi, Volume (Nomor) Tahun, Halaman

Some respondents received different responses from families, especially couples ranging from violence to rejection that resulted in pregnant women withdrawing from routine antenatal care women withdrawing from routine antenatal care. But there also received positive responses and good support from their partners. Pregnant women who already know their, HIV status, report experiencing lack of family support. There are 1512 HIV positive pregnant women, with an average age of 28 years. HIV positive pregnant women are older than HIV negative pregnant. women. Unplanned pregnancy is a challenge for pregnant women who suffer from HIV and the selection of appropriate contraceptives to prevent

selection of appropriate contraceptives to prevent an unplanned pregnancy (Iyun et al., 2018) The results of research conducted by Marleni (2018) in implementing the PMTCT Hospital have forgotten several aspects such as providing HIV information to women of childbearing age-comprehensive information related to pregnancy, planning for women with HIV and their partners. Options for contraception, labor options, infant feeding and psychological support for women with HIV, their husbands or partners and their families. Resources in the PMTCT program are important resources in the second leadership engagement and access to knowledge

and information.

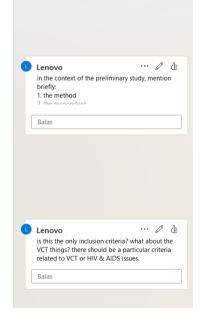
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This research was conducted in Gianyar district from March to September 2019. In this study, the population was the families with pregnant women living in the area of Gianyar district. The samples were 108 respondents recruited using a probability sampling technique. i.e. multi-stage sampling. The inclusion criteria were the families with pregnant women in the first to the third trimester! The families with pregnant women siened an informed consent to show their women signed an informed consent to show their agreement to participate in the study.

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The data were collected from respondents through questionnaire. Respondents completed the questionnaire when



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did home visits to families with pregnant women in Gianyar district for the data collection.

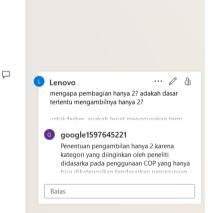
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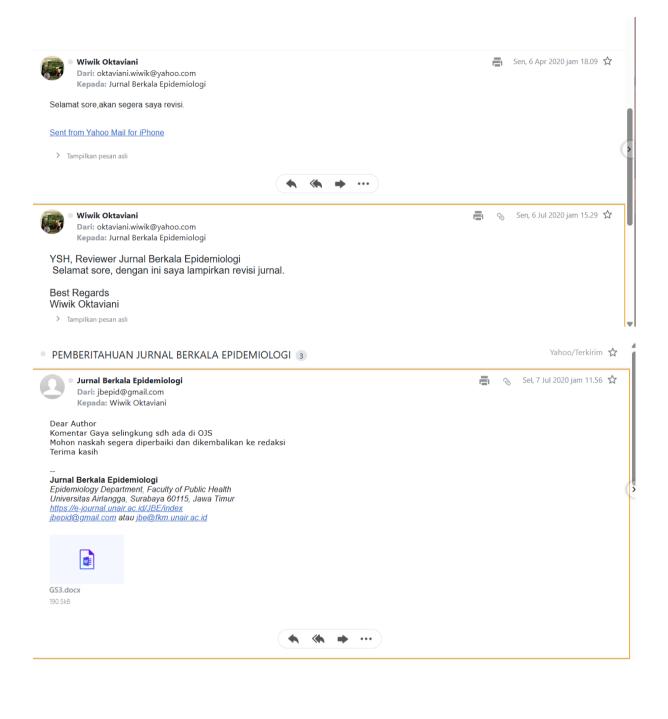
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Selamat pagi, kpd yth. Pengelola Jurnal Berkala Epidemiologi.

Hasil review akan segera saya revisi. Terima kasih.

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Wiwik Oktaviani

Dari: oktaviani.wiwik@yahoo.com Kepada: Jurnal Berkala Epidemiologi

Kepada Yth. Pengelola Jurnal Berkala Epidemiologi

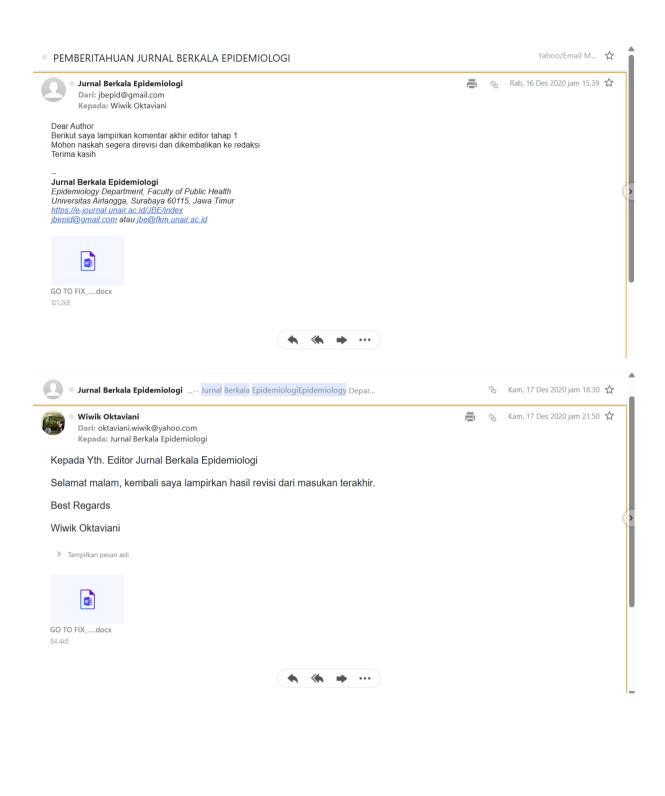
Selamat siang, saya lampirkan kembali hasil revisi dari feedback yang sudah diberikan oleh reviewer 1-3. Terima kasih banyak.

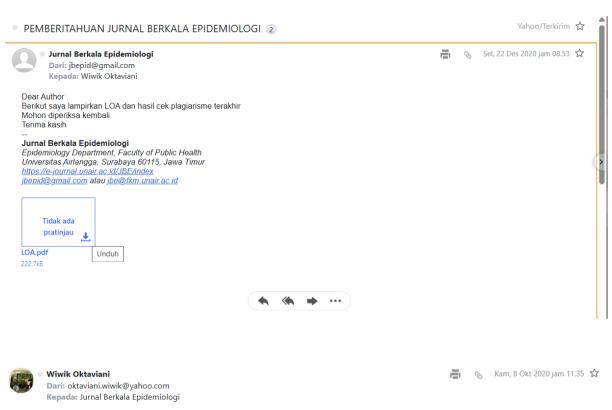
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Best Regards Wiwik Oktaviani

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Kepada Yth Pengelola Jurnal Berkala Epidemiologi

Selamat siang, bersama ini saya lampirkan hasil revisi dari review yang sudah dikirimkan kepada saya.

Best Regards

Wiwik Oktaviani

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Volume Nomor (Tahun) Halaman DOI: nomer id/jbe.v.i....Tahun. halaman p-ISSN: 2301-7171 ; e-ISSN: 2541-092X Website: http://journal.unair.ac.id/index.php/JBE/ Email: ibepid@gmail.com



OPTIMIZING THE UTILIZATION OF VOLUNTARY COUNSELING AND TEST THROUGH SUPPORT AND FAMILY HEALTH CARE FUNCTIONS

Optimalisasi Pemanfaatan Voluntary Counseling And Test (VCT) Melalui Peningkatan Dukungan Dan Fungsi Perawatan Kesehatan Keluarga

ARTICLE INFO

Article History: Received Revised form Accepted Published online

Keywords:

family support; health care function; human immunodeficiency virus; pregnant women; family

Kata Kunci:

dukungan keluarga; fungsi perawatan kesehatan; human immunodeficiency virus; ibu hamil; keluarga

ABSTRACT

Background: The transmission of Human Immunodeficiency Virus (HIV) from mother to baby is now increasing along with the increased number of HIV-infected women. Pregnant women with HIV can be a threat to the safety of the fetus in the womb as transmission of HIV may occur from a mother to her baby. 15% of pregnant women living with HIV accessed antiretroviral medicine to prevent transmission of the virus to their babies. **Purpose:** This study aimed to identify the family support and health care function for pregnant women in using the voluntary counseling test (VCT). Methods: This research was conducted in the working area of Gianyar District health center 1 Gianyar and health center II Blahbatuh. The independent variables in this study are Family Support and Family Health Care Functions. The dependent variable is the Utilization of VCT Health Service Facilities. This study employed a cross-sectional research design. The samples were 108 respondents recruited using a probability sampling technique, namely, multi-stage sampling. Bivariate and multivariate analyses using Chi-Square test and logistic regression test, respectively, were used to analyze the data. Results: The results showed that there was a significant relationship between family support and family health care function in pregnant women (p-value = 0.00) and the use of VCT. Conclusion: Pregnant women with good family support, good health care function, increased maternal age, and early gestational age were more likely to use VCT than when they were in the opposite situations.

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ABSTRAK

Latar Belakang: Penularan Human Immunodeficiency Virus (HIV) dari ibu ke bayi saat ini bertambah seiring dengan meningkatnya perempuan yang terinfeksi HIV. Ibu hamil yang menderita HIV merupakan ancaman bagi keselamatan jiwa janin yang ada di dalam kandungan karena penularan terjadi dari ibu ke bayinya. 15% wanita hamil yang hidup dengan HIV mengakses obat antiretroviral untuk mencegah penularan virus ke bayi mereka. Tujuan: Penelitian ini bertujuan untuk mengidentifikasi dukungan keluarga dan fungsi perawatan kesehatan pada ibu hamil dalam memanfaatkan fasilitas pelayanan kesehatan voluntary counseling test (VCT). Metode: Penelitian ini dilakukan di wilayah kerja puskesmas 1 Gianyar dan puskesmas II Blahbatuh Kabupaten Gianyar. Variabel independen dalam penelitian ini adalah Dukungan Keluarga dan Fungsi Perawatan Kesehatan Keluarga. Variabel dependen adalah Pemanfaatan Fasilitas Pelayanan Kesehatan VCT. Rancangan penelitian ini menggunakan desain cross sectional. Sampel yang digunakan sebanyak 108 responden yang diambil dengan teknik probability sampling yaitu multi stage sampling. Analisis data bivariat dilakukan menggunakan uji Chi Square dan Regresi logistik pada analisis multivariat. Hasil: Penelitian ini menunjukkan bahwa ada hubungan signifikan antara variabel Dukungan dan Fungsi Perawatan Kesehatan Keluarga pada Ibu Hamil (p-value = 0,00) terhadap Pemanfaatan Pelayanan Kesehatan Voluntary Counseling Test (VCT). Kesimpulan: Dukungan keluarga yang baik, fungsi perawatan kesehatan yang baik, usia ibu bertambah dan usia kehamilan awal memiliki peluang memanfaatkan fasilitas pelayanan kesehatan VCT dari pada dalam keadaan sebaliknya.

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INTRODUCTION

According to UNAIDS (Joint United Nation Program on HIV and AIDS) said at the end of 2017 there were more than 36.90 of the world million people live with HIV (35.10 million people adults and 1.80 million children), 1.80 million cases new HIV, and 940,000 people in the world died of HIV ands AIDS. HIV cases in Indonesia in 2017 there were 630.00 people living with HIV with a number of new cases amounted to 49,000 people and the number of people who died of AIDS as many as 39,000 people. (UNAIDS, 2019). Based on data in the world for the year 2017, found 59% of all people were living with HIV

accessing treatment with details; 59% of adults aged ≥ 15 years living with HIV have access to treatment, and 52% of children are aged 0-14 years. In addition, 65% of adult women ≥ 15 years old has access to care, only 53% of adult men are aged 15 years and older have access. In 2017 it was also found that, 80% pregnant women living with HIV have access to antiretroviral drugs to prevent HIV transmission to their (UNAIDS. 2019). babies Research conducted (Gbadamosi et al., 2019) of the 9231 women who participated, 5264 had male partners who received testing. a male participation of 57%. Mean age ± standard deviation was 27.5 ± 8.3 .

participants were married (99.5%) and more than 60% had attained a secondary level education or higher. Slightly less than а quarter that thev reported had never received an HIV test.

The increasing epidemic of AIDS in Indonesia may occur due to the growing proportion of AIDS cases in women, which will undoubtedly lead to an increased number of babies infected with HIV in the community. Bali province ranks fifth after West Java, East Java, Papua, and Jakarta for the number of people with AIDS. Bali also ranks second after Papua in terms of the disease prevalence (the comparison between the number of cases and the number of population). As of the end of August 2019, 21,829 HIV cases had been reported to the Bali Provincial Health Office. With the discovery in the AIDS stage as many as 8,621 cases. Derived from 9 districts per cities. Of the cases reported by each district per city, most were found in the age group of 20-29 years (38%) followed by 30-39 years (35%). The highest source of transmission through heterosexual contact was 76.4% (Dinkes Provinsi Bali, 2019).

HIV ands AIDS is the main cause reproductive age deaths in some developing countries. Pregnant. women with HIV can transmited the baby virus to her through process of pregnancy, childbirth or breastfeeding, if during the process transmission intervened ofnot increase transmission from mother to the baby as much as 14-15%. In Indonesia itself, found the number of women aged ≥ 15 the year of living with HIV is 220,000 and the number of children living with HIV is 13,00. (UNAIDS, 2019) This number will continue increase, along increasing prevalence of women aged 15-49 years who suffering from HIV then the risk can be increase the number of children with HIV ands AIDS. Therefore the government HIVimplements transmission prevention programs from mothers to children (PPIA) as one solution reduce transmission of the HIV virus from mothers to the baby (Kementrian Kesehatan RI, 2017).

HIV transmission from HIV-positive mothers to their children during pregnancy (5% -10%), childbirth (10% -20), breastfeeding (10% -15%). (MTCT) Mother-to-Child Transmission contributed most new infections in children. If in the process is not done interventions can increase transmission up to 15-45%. Transmission from mother to baby can be prevented by giving mothers ARVs during pregnancy and breasfeeding (WHO, 2018). According to research conducted (Seenivasan et al., 2015) 4 PCR infants were positive for HIV, and all were breastfeeding. The baby was born to a mother with HIV stage 1 or 2 who did not take ART because of a CD4 cell> 350 cells / mm3. 1 positive PCR baby was found from mothers with stage 3 or 4 HIV and were taking antiretroviral therapy because their CD4 cell count <200 cells / mm3. Cumulative free of HIV from infants up to 18 months is 94%.

Antriretroviral therapy in pregnant women with HIV positive following ART guidelines for adults. In pregnant women, TB patients and hepatitis therapy can be given immediately regardless of clinical stage and CD4 cell count, but CD4 cell counts are also needed treatment monitoring. For pregnant women with HIV-positive therapy recommended using a combination three drugs (2 NRTI + 1 NNRTI). Need to be avoided use of "triple nuke" (3 NRTI). Alloys fixed dose combination ARV drugs (200mg) + 3TC (300mg) + EFV (600mg) (Kementrian Kesehatan RI. 2017).

The Prevention of Mother-to-Child Transmission of HIV (PMTCT), a program aimed to prevent mother-to-child transmission of HIV, is rarely implemented even though the Ministry of Health already issued the handbook of the program in 2005. PMTCT is a program to prevent HIV virus from mother to child during pregnancy. When participating in this program, parents will get a variety of directions regarding pregnancy planning, examinations and medical care for mothers and babies (BKKN, 2019). Provider Initiated Testing and Counseling (PITC) is a government policy in health services where all personnel health should recommend special HIV tests for pregnant women. PITC activities contain giving advice and inspection activities HIV with the principle of the patient has got sufficient

information about HIV and agreed to have an HIV test (Ernawati 2016)

According to (Onono, 2015) barriers to the utilization of PMTCT services for women are ecological individuals, social families communities and structural determinations. The majority of pregnant women who have been diagnosed with HIV for the first time will struggle with the fear of losing a partner even to separation. Some respondents received different responses from families, especially couples ranging from violence to rejection that resulted in pregnant women withdrawing from routine antenatal care. But there also received positive responses and good support from their partners. Pregnant women who already know their HIV status, report experiencing lack of family support. There are 1512 HIV positive pregnant women, with an average age of 28 years. HIV positive pregnant women are older than HIV negative pregnant women. Unplanned pregnancy is a challenge for pregnant women who suffer from HIV and the selection of appropriate contraceptives to prevent an unplanned pregnancy (Iyun et al., 2018)

The results of research conducted by Marleni (2018) in implementing the PMTCT Hospital have forgotten several aspects such as providing HIV information to women of childbearing age, comprehensive information related to pregnancy planning for women with HIV and their partners. Options for contraception, labor options, infant feeding and psychological support for women with HIV, their husbands or partners and their families. Resources in the PMTCT program are important factors that can determine the success of the program, therefore the availability of reliable and sufficient resources is not only limited to personnel but other sources including finance. Voluntary Counseling Test (VCT) voluntary counseling and testing services are an important component in efforts to prevent HIV transmission and mother to baby. The way to find out someone's status is through a blood test. The procedure for conducting blood tests is preceded by counseling before and after the test, maintaining confidentiality and having written consent (informed consent).

Wiraharja, Regina Satva Laksono Trisnantoro, Yodi Mahendradhata dan Ignatius (2019) showed integration has not direct impact to result, and is not a sole solution to PMTCT result. Influencing factor are resource, inclusion of patient's need and perspective in service, network and communications, external policy and incentives, leadership engagement and access knowledge and information. Since level of integration is not always related to results of PMTCT, governmental effort must focus on resources, inclusion of patients needs and perspective, building formal and informal networks and communications inside and outside public PHC, external policy and incentives, leadership engagement and access to knowledge and information.

The results of the preliminary study showed that 40 pregnant women visited the public health center monthly, and 13 of them were willing to do the VCT. The preliminary study was carried out by structured interviews with health workers and medical records from primary health care facilities. The interview was conducted to determine the number of visits by pregnant women each month and to find out the description of the use of VCT health services for pregnant women.

This study was conducted directly in the community by the researchers and was not limited to the health care centers such as public health centers. The aims of study was to identify family support and functions of family health care in the utilization of VCT health care facilities.

METHODS

This research was conducted in Gianyar district health center I Gianyar and health center II Blahbatuh from March to September 2019. In this study, the population was the families with pregnant women living in the area of Gianyar district. The samples were 108 respondents recruited using a probability sampling technique, i.e., multi-stage sampling. The inclusion criteria were the families with pregnant women in the first to the third trimester. Other inclusion criteria in this study were respondents who agreed to be involved in this study, primiparous pregnant women and those who had a history of not using VCT in previous pregnancies. Prospective respondents who refuse are not forced to become respondents. The families with pregnant women signed an informed consent to show their agreement to participate in the study.

The data were collected from respondents through questionnaire. Respondents completed the questionnaire they had their ANC in the health care facilities. The researchers also

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Dikomentari [4R3]: Rujukan usia kandungan ini digunakan berdasarkan program VCT sendiri yang dilakukan dari usia trimester 1-3. Karena penelitian ini berjalan dalam waktu yang panjang untuk menghindari kurangnya sampel penelitian maka digunakan seluruh trimester kehamilan. Sesuai dengan tujuan penelitian juga untuk mengidentifikasi anakah ibu hamil memanfaatkan VCT selama

did home visits to families with pregnant women in Gianyar district for the data collection.

Α hivariate analysis พลร performed on two variables that were assumed to have a relationship. The independent variables in this study are Family Support and Family Health Care Functions. dependent variable in the study was the Utilization of V CT Health Service Facilities. The operational definition of family support categorized as less determined based on the Cut of Point (COP) < mean, whereas for the good category based on COP ≥ mean. operational definition of the family health care function is categorized as less determined by the Cut of Point (COP) < mean, whereas for the good category based on COP ≥ mean. This research has been passed the ethical clearance of the Faculty of Medicine of Udayana University Sanglah Central General Hospital by number 2921/UN14.2.2.VII.14/LP/2019.

The unpaired Chi-square test with a 95% confidence level was used in the analysis for categorical data of the independent and dependent variables. Multivariate analysis involving several confounding variables was performed using the multiple logistic regression test.

RESULTS

The analysis in this study explained the relationship between family support and health care function in using VCT in Gianyar district. Utilization of good health care facilities has a significant p-value (0.00) relationship to family support, this is seen from 86% of pregnant women who use health services based on good family support. The results of the family health care function showed a significant relationship of p-value (0.00) to the utilization of VCT health services, this was indicated by 79% of pregnant women who had good health care functions utilizing VCT

health care facilities (Table 1). Multivariate results indicate that the age of pregnant women has an OR value of 1.04, where every increase of 1.04 years of maternal age will increase the utilization of VCT health services. Family support has an OR of 122.00, this shows as many as 122 times pregnant women who have good family support will increase the utilization of VCT health services (Table 2)

DISCUSSION

Family Support and Family Health Care Function in Using VCT

The results of the bivariate analysis showed a significant relationship between family support and the use of VCT in Gianvar district. According (Kaakinen et al., 2015) The function of family health care is the art, science, philosophy and ways of interacting in providing care for families. The results of this study are in line with a study by Kridawati, Sriwitati, & Cicilia (2015), which reported that there was a relationship between family or husband support and the use of HIV test with p = 0.00. Family support is a reinforcing factor of behaviors. Furthermore, pregnant women are still dependent on their husband's approval in deciding to use the VCT service. The results of research conducted by Espana Giri, Nopiyani, & Merati (2017) husband's support influence pregnant women to conduct ANC examination. ANC examination is mostly done at midwife practice not to health care center because it considers the medicine given is less effective. pregnant women have never had an HIV test because they have never heard of it. The level of education of pregnant women about HIV testing is very low. Only a few pregnant women hear HIV testing during pregnancy. According to (Makoni et al., 2016) increased involvement of male partners in the prevention of HIV transmission has several factors including routine education for couples about PMTCT, community-based campaigns in the workplace and accommodating the working class over the weekend is very important to encourage partner involvement in PMTCT so that it will reduce HIV transmission to infants. According to (Kanyangarara et al., 2019) the application of family planning in HIV care and treatment

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programs is a strategy that can be developed, so that in its handling it can support the provision of PMTCT services for pregnant women.

The results also showed a significant relationship between health care function and use of VCT. According to Marylin & Vicky (2010) family health care is the provision of care that is centered on the family as a unit to prevent diseases. Families provide preventative health care and jointly care for sick family members. The results of this study indicated that pregnant women who had good health care function (n=79; 73.1%) used the VCT service. This shows that families contribute to the efforts for pregnant women to identify and prevent diseases. According to Onono (2015) barriers to the utilization of PMTCT services for women are social ecological individuals, families, communities and structural determinations. The majority of pregnant women who have been diagnosed with HIV for the first time will struggle with the fear of losing a partner even to separation. Some respondents received different responses from families, especially couples ranging from violence to rejection that resulted in pregnant women withdrawing from routine antenatal care. But there also received positive responses and good support from their partners. Pregnant women who already know their HIV status, report experiencing lack of family support.

According to research conducted Wilda (2019) husband or family support has a 2 times chance to utilize VCT services for pregnant women compared to those who do not get family support. The behavior of mothers in utilizing health services is shaped by the support of families in this case especially the husband, this condition is because pregnant women tend to obey what is suggested to their husband or family. The results of research conducted by Dudi, Mulyanti & Nuraeni (2017) 56.70% of pregnant women who received support from their husbands used VCT services, less family support caused 95% of pregnant women to not use VCT health services.

Other research conducted by Maku, et al (2016) shows that emotional support, appreciation support, instrumental support and informative support are not good enough given by families. So that the prevention of HIV and AIDS is less than the maximum can be done. According to the results of research conducted Wanyenze et al (2018) off the 299 women (42.50%) reported at least one pregnancy within 24 months; 61 women (48,00%) delivered a live child. Of the 55 who had a live birth at the first pregnancy, 54 (98,20%) used antenatal care (ANC starting at 15.5 weeks of gestation on average and 47/49 (95,90%) delivered at health facility.

Table 1Family Support and Family Health Care Function in Using VCT in Gianyar District in June 2019 (n=108)

		Use	of VCT	Total		p-value	
Variable		No		Yes			
	n	%	n	%	n	%	_
Family Support							
Less	5	22.7	17	77.28	22	20.37	
		2					0.00
Good	0	0.00	86	100.00	86	79.63	
Family Health Care Function							
Less	5	17.2	24	82.76	29	26.85	
		4					0.00
Good	0	0	79	100.00	79	73.15	0.00
Total	5	4.63	103	95.37	108	100.00	_

Table 2
Results of Multivariate Analysis of the Variables and <u>Use of VCT in Gianyar District in June 2019</u>

	Constanta: - 0.003						
Variable	MaternalBage Wald	p- value Ex	xp (B) OR	0.04	0.11	0.74	1.04

According to Kementrian Kesehatan RI (2017) as much as 70% of the community's knowledge is less about HIV, this is seen from the results of the correct answer only 7 out of 20 questions were given. The results of other studies conducted by Halim, Syamsulhuda, & Aditya (2016) titled the factors related to the behavior of pregnant women in HIV testing in the Halmahera Health Center Work Area of Semarang City showed that pregnant women who did an HIV examination (61.10%) while pregnant women who did not have an HIV check (38.90%). Factors related to the behavior of pregnant women in HIV testing are attitudes, infrastructure, husband support and support of health workers. The results of the study showed that the majority (57.40%) of respondents received support and (42.60%) of respondents who lacked support. The proportion who did not conduct an examination (39.10%) was greater than that which received support (16.10%). The results of this study indicate that husband's support did not show a relationship with HIV testing behavior (p value 0.11). Husband's support in this study one of the indicators is to take the ANC service at the nearest health center, and the role of the husband accompanying him during an HIV test. The results of research conducted by Nurjanah and Wahyono (2019) challenges in implementing the PMTCT program include lack of information on ART treatment, lack of family support, heavy workload experienced by health workers and limited HIV testing kits and drug stocks. According to the results of the study of Nasution, Simanullang & Angkat (2019) 64.60% of the majority of pregnant women were good at using VCT and 35.40% were lacking at using VCT. The use of VCT is an effort to prevent the transmission and prevention of HIV virus infection. This under-utilization of pregnant women occurs when respondents have been contacted by health workers, but pregnant women ignore instructions from health workers and do not make VCT visits.

The results of multivariate analysis showed that maternal age and gestational age were proven to be confounding variables that affected support and family health care function in using VCT. The maternal age variable showed each increase of 1.04 years of age for pregnant women, provides an opportunity of 1.04 times to utilize VCT health care facilities. The gestational age variable showed

0.93 time, this indicates that an additional one month of gestation will cause 0.93 times of the chance not to use VCT. Research conducted by Sancaya (2019) shows 78.50% of pregnant women aged between 20-35 years who conduct examinations in VCT services. Pregnant women who made a trimester 1 visit to VCT health services were 93.80%. Pregnant women who made more visits were primipara or garandemulti as much as 61.50%. The results of research conducted (Negash et al., 2016) show PMTCT utilization is not limited by social demographic characteristics. PMTCT services have a high level of satisfaction because there is no stigma and disclosure of the status of patients with HIV.

Based on the results of research conducted by Sriwitati et al (2015) 73% of pregnant women did not utilize HIV testing services. The most dominant variable related to the utilization of HIV testing services is husband or family support (OR 15,419). The results showed respondents who received family support but did not utilize HIV testing services as many as 27 people (42.40%) and respondents who said they did not get family support and did not use HIV testing services as many as 83 people (96.50%). Research conducted by Hikmah, Novitasari, & Aniroh (2015) another factor that was most dominant in influencing the behavior of pregnant women to screen for HIV and AIDS was occupation with an OR value is 9,28 Research conducted by Ngoma-Hazemba & Ncama (2018) shows that partner support is needed in preventing mother-to-child transmission of HIV. The results of this study indicate that couples are rarely involved in ANC. The involvement of partners during ANC and assistance during the use of health services is a shared responsibility between partners.

This study indicated that maternal age and gestational age have a contribution in the use of health care facilities. Varied age of respondents of this study also provides various description of the use of health service facilities. Research conducted Sitopu (2018) shows a significant relationship between knowledge and the use of VCT services. The higher the knowledge of pregnant women, the better the utilization of VCT services. Some pregnant women did not do VCT as they did not have good support from their husband or family. This is in line with research conducted by Ponco et al. (2016), reporting that ANC visits influenced the

willingness of mothers to take an HIV test. The more often the women check for their pregnancy, the higher the chance the women have to take an HIV test.

Research Limitation

The limitation of this study was the fact that the house of the respondents was far away apart from each other, and therefore, the researchers took a long time to collect the data.

CONCLUSION

Family support and health care function were found to have an effect on increasing the use of VCT for pregnant women. The results of this study showed that family support and family health care function could encourage pregnant women to use VCT health care facilities.

CONFLICT OF INTEREST

This research shows that so far the utilization of health services for VCT has been carried out in the community. The policy of providing free services for pregnant women in conducting HIV and AIDS screening is still an obstacle in some places because they are afraid to conduct the examination until they do not know that there is an examination that can be done free of charge, so the achievement of VCT utilization rates in the community has not met the target. The result of this study can identify the support and function of family health care in the utilization of VCT health services.

AUTHOR CONTRIBUTION

Conceptualization, Methodology: NPWO, NLPD, IMSA, NWT. Data curation: NPWO, NLPD, IMSA, NWT. Formal analysis: IMSA, NPWO. Project administration: NLPD, NWT. Resource: NPWO, NLPD, IMSA, NWT. Supervision: NPWO, NLPD. Writing-Original draft: NPWO. Writing-review and editing: NPWO, NLPD, IMSA, NWT.

ACKNOWLEDGMENT

The researcher would like to thank the Technical Implementation Unit of Community Health in the area of Gianyar district and the health care volunteers for helping the researchers in data collection and home visits. The researchers also thank all respondents who participated in this study.

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Jurnal Berkala Epidemiologi Volume 9 No 3. September 2021. 275 – 283

p-ISSN: 2301-7171; e-ISSN: 2541-092X





DOI: 10.20473/jbe.v9i32021.275-283

Email: jbe@fkm.unair.ac.id / jbepid@gmail.com

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ORIGINAL RESEARCH

THE UTILIZATION OF VOLUNTARY COUNSELING AND TESTING THROUGH SUPPORT AND FAMILY HEALTH CARE FUNCTIONS

Pemanfaatan Voluntery Counseling and Test (VCT) melalui Peningkatan Dukungan dan Fungsi Perawatan Kesehatan Keluarga

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ARTICLE INFO

Article History: Received December, 13th, 2019 Revised form April, 28th, 2021 Accepted August, 30th, 2021 Published online September, 24th, 2021

Keywords:

family support; health care function; human immunodeficiency virus; pregnant women; family

Kata Kunci:

dukungan keluarga; fungsi perawatan kesehatan; human immunodeficiency virus; ibu hamil; keluarga

ABSTRACT

Background: The transmission of the Human Immunodeficiency Virus (HIV) from mother to baby is now increasing along with the growing number of HIV-infected women. Approximately 15% of pregnant women living with HIV have accessed antiretroviral (ARV) medicine to prevent transmission of the virus to their babies. Purpose: This study aimed to identify the support and healthcare functions available to pregnant women in using the voluntary counseling test (VCT). Methods: This research was conducted in the working area of Gianyar District health center. The independent variables in this study are family support and family healthcare functions. The dependent variable is the utilization of VCT health service facilities. This study employed a cross-sectional research design. The samples were 108 respondents recruited using a probability sampling technique, namely multi-stage sampling. Bivariate and multivariate analysis were conducted using the chisquare test and logistic regression test. **Results:** The research variable related to the use of VCT health services with family support showed an odds ratio (OR) = 122, while family healthcare function had an OR = 465. **Conclusion:** Pregnant women with good family support, good healthcare function, increased maternal age, and early gestational age were more likely to use VCT than when they were in opposite situations.

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ABSTRAK

Latar Belakang: Penularan Human Immunodeficiency Virus (HIV)

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How to Cite: Oktaviani, N. P. W., Devhy, N. L. P., Adiputra, I. M. S., & Trisnadewi, N. W. (2021). The utilization of voluntary counseling and test through support and family health care functions. *Jurnal Berkala Epidemiologi*, *9*(3), 275–283. https://dx.doi.org/10.20473/jbe.v9i32 021.275–283

dari ibu ke bayi saat ini bertambah seiring dengan meningkatnya perempuan yang terinfeksi HIV. Sekitar 15% wanita hamil yang hidup dengan HIV mengkases obat antiretroviral untuk mencegah penularan virus ke bayi mereka. Tujuan: Penelitian ini bertujuan untuk mengidentifikasi dukungan dan fungsi perawatan kesehatan pada ibu hamil dalam memanfaatkan fasilitas pelayanan kesehatan voluntery counseling test (VCT). Metode: Penelitian ini dilakukan diwilayah kerja puskesmas Kabupaten Gianyar. Variabel independen dalam penelitian ini adalah dukungan keluarga dan fungsi perawatan kesehatan keluarga. Variabel dependen adalah pemanfaatan fasilitas pelayanan kesehatan VCT. Rancangan penelitian ini menggunakan desain cross sectional. Sampel yang digunakan sebanyak 108 responden yang diambil dengan teknik probability sampling yaitu multi stage sampling. Analisis data bivariat dan multivariate dilakukan menggunakan uji Chi Square dan regresi logistik. Hasil: Karakteristik responden dalam penelitian ini adalah rata-rata usia 27,60 tahun sebanyak 54,36% (56 orang) dan dengan usia kehamilan rata-rata 11,20 minggu sebanyak 53,70% (58 orang). Variabel yang diteliti memiliki hubungan antara pemanfaatan pelayanan kesehatan VCT dengan dukungan keluarga yang menunjukkan nilai OR = 122, fungsi perawatan kesehatan keluarga dengan menghasilkan OR=465. Kesimpulan: Ibu hamil dengan dukungan keluarga yang baik, fungsi perawatan kesehatan yang baik, usia ibu bertambah dan usia kehamilan awal memiliki peluang lebih besar memanfaatkan fasilitas pelayanan kesehatan VCT dari pada dalam keadaan sebaliknya.

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INTRODUCTION

According to UNAIDS (Joint United Nation Program on HIV and AIDS), at the end of 2017, there were more than 36.90 million people in the world living with HIV (35.10 million adults and 1.80 million children), 1.80 million new cases of HIV, and 940,000 deaths globally from HIV and AIDS. In terms of HIV cases in Indonesia, in 2017, 630,000 people were living with HIV, with a number of new cases amounting to 49,000 people, while the number of people who died of AIDS was as high as 39,000 people. Moreover, based on global data for the year 2017, 59% of all people living with HIV are accessing appropriate treatment, 59% of adults aged ≥ 15 years living with HIV have access to treatment, while this figure is 52% for children aged 0-14 years. In addition, while 65% of adult women (≥ 15 years old) had access to care, only 53% of adult men (> 15 years old) have such access. In 2017, it was also found that 80% of pregnant women living with HIV have access to antiretroviral (ARV) drugs to prevent HIV transmission to their babies (UNAIDS. 2019). Research conducted Gbadamosi et al. (2019) showed that of the 9,231

women who participated in their study, 5,264 had male partners who received HIV testing, representing a male participation rate of 57%. Mean age \pm standard deviation was 27.50 ± 8.30 . Most participants were married (99.50%), and more than 60% had attained a secondary level of education or higher. Slightly less than a quarter reported that they had never received an HIV test.

The increasing epidemic of AIDS in Indonesia may be occurring due to the growing proportion of AIDS cases in women, which will undoubtedly lead to an increased number of babies being infected with HIV in the community. Bali province ranks fifth after West Java, East Java, Papua, and Jakarta for the number of people with AIDS. Bali also ranks second after Papua in terms of disease prevalence (the comparison between the number of cases and the number of population). As of the end of August 2019, 21,829 HIV cases had been reported to the Bali Provincial Health Office, with as many as 8,621 of these cases found to be in the AIDS stage. Data were derived from nine districts per city. Of the cases reported by each city district, most were found to be in the age group of 20-29 years (38%) followed by 30-39 years (35%). The highest source of transmission

was through heterosexual contact at 76.4% (Bali Provincial Health Office, 2019).

HIV and AIDS is the main cause of reproductive-age deaths in some developing countries. A pregnant woman with HIV can transmit the virus to her baby through the process of pregnancy, childbirth or breastfeeding; if transmission is not intervened in, this transmission from mother to baby can increase by as much as 14-15%. In Indonesia, it was recently found that the number of women aged ≥ 15 living with HIV is 220,000, while the number of children living with HIV is 1,300 (UNAIDS, 2019). This number will continue to increase along with the increasing prevalence of women aged 15-49 years who suffer from HIV, resulting in a risk of increasing the number of children with HIV and AIDS. Therefore, the government is implementing programs to reduce HIV transmission from mothers to children (PPIA); one solution is to reduce transmission of HIV from mother to baby (Ministry of Health RI, 2018).

HIV is transmitted from HIV-positive mothers to their children during pregnancy (5-10%), during childbirth (10–20%), and via Mother-To-Child breastfeeding (10-15%). Transmission (MTCT) contributes to the majority of infections in children. Without intervention, such transmission can increase by between 15-45%. Transmission from mother to baby can be prevented by giving mothers ARVs during pregnancy and breastfeeding (WHO, 2018). In the research of Seenivasan et al (2015), four PCR infants were found to be positive for HIV, and all were infected via breastfeeding. The babies were born to mothers with HIV stage 1 or 2 who did not take antiretroviral therapy (ART) because of a CD4 cell count of > 350 cells / mm3. One positive PCR baby was found among mothers with stage 3 or 4 HIV taking antiretroviral therapy because of their CD4 cell count of < 200 cells / mm3. Cumulatively, the rate of infants remaining free of HIV up to 18 months is 94%.

Antiretroviral therapy in HIV-positive pregnant women follows ART guidelines for adults. In pregnant women, TB patients and hepatitis therapy can be given immediately regardless of clinical stage and CD4 cell count, but CD4 cell counts also require monitoring. For HIV-positive pregnant women, therapy is recommended using a combination of three drugs (2 NRTI + 1 NNRTI). The use of the "triple nuke" (3 NRTI) should be avoided. It is also possible to use the following fixed-dose combination (FDC) of ARV

drugs. TDF (300mg) + 3TC (300mg) + EFV (600mg) (Ministry of Health RI, 2018).

Prevention of Mother-To-Child Transmission (PMTCT), a program aimed at preventing mothertransmission of HIV, is implemented, even though the Ministry of Health issued the handbook for this program in 2005. When participating in this program, parents will receive a variety of directions regarding pregnancy planning, examinations and medical care for mothers and babies (Indonesia Population and Family Planning Agency, 2019). Provider Initiated Testing and Counseling (PITC) is a government health services policy according to which all health personnel should recommend special HIV tests for pregnant women. PITC activities include giving advice and diagnosis activities related to HIV with the goal of ensuring that the patient receives sufficient information about HIV and agrees to have an HIV test (Ernawati, Suryoputro, & Mustofa, 2016).

The results of research conducted by Marleni, Marsofely, & Yuniarti (2016) on implementing the PMTCT in hospitals neglect several aspects, such as providing HIV information to women of childbearing age and delivering comprehensive information related to pregnancy planning for women with HIV and their partners. Options for contraception, labor options, infant feeding and psychological support for women with HIV, their husbands or partners and their families should be included. Resources in the PMTCT program are important factors that can determine the success of the program; therefore, the availability of reliable and sufficient resources is not only limited to personnel but also extends to other sources, including finance. Voluntary Counseling and Testing (VCT) services are an important component in efforts to prevent HIV transmission generally and from mother to baby. The way to determine someone's HIV status is through a blood test. The procedure for conducting blood tests is preceded by counseling before and after the test, maintaining confidentiality and obtaining written (informed) consent.

The results of the preliminary study showed that 40 pregnant women visited the public health center monthly, and 13 of them were willing to do the VCT. This study was conducted directly in the community by the researchers and was not limited to specific healthcare centers such as public health centers. The study aimed to identify support and functions of family healthcare in the utilization of VCT health care facilities.

METHODS

This research used a type of analytical observational study with a cross-sectional design. This research was conducted in Gianyar district from March to September 2019. In this study, the population was families with pregnant women living in the area of Gianyar district. The samples were 108 respondents recruited using a probability sampling technique, i.e., multi-stage sampling. The inclusion criteria were families with pregnant women in the first to the third trimester. The families with pregnant women signed informed consent to provide their agreement to participate in the study.

The data were collected from respondents via questionnaire. Respondents completed questionnaire during their ante-natal checkup (ANC) in the healthcare facilities. The researchers also conducted home visits to families with pregnant women in Gianyar district for data collection purposes. A bivariate analysis was performed on two variables that were assumed to be related. The independent variables in this study are Family Support and Family Healthcare Functions. The dependent variable in the study was the Utilization of VCT Health Service Facilities. The operational definition of the dependent variable, family support, can be seen emotional the support, information, instruments and rewards that the family gives to pregnant women. The family healthcare function variable is determined from the function of five family duties carried out by the family: the family's ability to recognize problems, the ability of the family to make decisions, the ability of the family to care for the mother, the ability of the family to modify the environment and the ability of the family to use health service facilities. In

terms of operational definition, family support is categorized as "less" if the Cut-Off Point (COP) < the mean and "good" if $COP \ge mean$. Family healthcare function is categorized as "less" if $COP \le mean$ and "good" if $COP \ge mean$. The use of cut-off points based on the mean value is based on the results of the data normality test from the independent variables, namely family support and family health care functions that have a normal data distribution; the mean value is used to determine the category of the variable.

An unpaired chi-square test with a 95% confidence level was used to analyze the categorical data of the independent and dependent variables. Multivariate analysis involving several confounding variables was performed using the multiple logistic regression test. This research has passed the ethical clearance of the Faculty of Medicine of Udayana University Sanglah Central General Hospital, number 2921/UN14.2.2.VII.14/LP/2019.

RESULTS

The analysis in this study explains the relationship between family support and healthcare function when using VCT in Gianyar district. Utilization of good healthcare facilities has a significant p-value (0.01) relationship to family support; this can be seen from the 86% of pregnant women who use health services and reported good family support. The results of the family healthcare function showed significant relationship of the p-value (0.01) to the utilization of VCT health services; this was indicated by 79% of pregnant women who had good healthcare functions utilizing VCT healthcare facilities (Table 1).

Table 1Family Support and Family Health Care Function in Using VCT in Gianyar District in June 2019 (n=108)

		Use	of VCT	Total		p-value	
Variable		No		Yes			
	n	%	n	%	n	%	
Family Support							
Less	5	22.72	17	77.28	22	20.37	0.01
Good	0	0.00	86	100.00	86	79.63	
Family Health Care Function							
Less	5	17.24	24	82.76	29	26.85	0.01
Good	0	0.00	79	100.00	79	73.15	
Total	5	4.63	103	95.37	108	100.00	_

Multivariate results indicate that the age of pregnant women has an odds ratio (OR) value of 1.04, such that every increase of 1.04 years in maternal age will increase the utilization of VCT health services. Moreover, family support has an OR of 122.00, indicating that pregnant women who have good family support will demonstrate a 122-fold increase in utilization of VCT health services (Table 2).

DISCUSSION

Family Support and Family Healthcare Function in Using VCT

The results of the bivariate analysis showed a significant relationship between family support and the use of VCT in Gianyar district. According to Kaakinen, Gedaly-Duff, Coehlo, & Hanson (2010), the function of family healthcare is the art, science, philosophy and ways in which these interact in providing care for families. The results of this study are in line with a study by Kridawati, Sriwitati, & Cicilia (2015), which reported that there was a relationship between family or husband support and the use of HIV testing with p = 0.00. Family support is a reinforcing factor of good health behavior. Furthermore, pregnant women are still dependent on their husband's approval in deciding to use the VCT service. The results of research conducted by Giri, Nopiyani, & Merati (2017) show that husbands' support influences pregnant women to undergo ANC examinations. ANC examinations are mostly conducted at midwife practices rather than healthcare centers because it is considered that the medicine provided is less effective. Many pregnant women have never had an HIV test because they have never heard of it. The level of education of pregnant women about HIV testing is very low. Only a few pregnant women hear about HIV testing during pregnancy. According to Makoni et al (2016), increased involvement of male partners in the prevention of HIV transmission has several factors, including routine education for couples about PMTCT, community-based campaigns in the workplace, and accommodating the working class over the weekend. It is very important to encourage partner involvement in PMTCT, as this reduce HIV transmission to infants. According to Kanyangarara, Sakyi, & Laar (2019), the application of family planning in HIV care and treatment programs is a strategy that can be developed to support the provision of PMTCT services for pregnant women.

The results of the present study also showed a significant relationship between healthcare function and use of VCT. The results indicated that pregnant women who had good healthcare function (n = 79: 73.10%) used the VCT service. This shows that families contribute to the efforts of pregnant women in identifying and preventing disease. According to Onono et al (2015) barriers to the utilization of PMTCT services for women include social-ecological, individual, family, community and structural determinations. The majority of pregnant women who have been diagnosed with HIV for the first time will struggle with the fear of losing a partner, possibly including separation. Some respondents received different responses from families, especially couples, ranging from violence to rejection, which resulted in pregnant women withdrawing from routine antenatal care. However, some also received positive responses and good support from their partners. Pregnant women who already know their HIV status report experiencing a lack of family support.

According to research conducted by Wilda (2019), husband or family support doubles the chance of pregnant women utilizing VCT services compared to those who do not receive family support. The behavior of mothers in utilizing health services is shaped by the support of families in this case, especially the husband; this is because pregnant women tend to obey the suggestions of their husband or family. The results of research conducted by Ahmad, Mulyanti, & Nuraeni (2019) show that 56.70% of pregnant women who received support from their husbands used VCT services, while less family support caused 95% of pregnant women to not use VCT health services.

Another study conducted by Maku, Mokalu, & Purwanto (2016) shows that emotional support, appreciative support, instrumental support and informative support are inadequate in many families. The prevention of HIV and AIDS currently in place is less than the maximum that can be done. According to the results of research conducted by Wanyenze et al (2018), of the 299 women in the study sample, 42.50% reported at least one pregnancy within 24 months. Of these, sixty-one women (48.00%) delivered a live child. Of the 55 who delivered a live child at their first pregnancy, 54 (98.20%) used antenatal care, starting at 15.5 weeks of gestation on average, and 47 out of 49 (95.90%) delivered at the health facility.

Table 2Results of Multivariate Analysis of the Variables and Use of VCT in Gianyar District in June 2019

Variable	В	Wald	p-value	Exp (B) OR
Constanta: - 0.01				
Maternal age	0.04	0.11	0.74	1.04
Gestational age	-0.07	0.97	0.33	0.93
Family support	18.62	0.01	0.99	122.00
Health care function	17.66	0.01	0.99	465.00

According to the Ministry of Health RI (2018), as much as 70% of the community has poor knowledge about HIV. This can be seen from the results of a survey, where only 7 out of 20 questions were answered correctly on average. The results of another study conducted by Halim, BM, & Kusumawati (2016) showed that 61.10% of pregnant women had had an HIV examination, while 38.90% had not. Factors related to the behavior of pregnant women related to HIV testing include attitudes, infrastructure, husband support and the support of health workers.

The results of the study showed that the majority (57.40%) of respondents received support. The proportion who did not undergo an examination (39.10%) was greater than those who did not receive support (16.10%). The results of this study indicate that the husband's support did not show a relationship with HIV testing behavior (p-value 0.11). To assess the husband's support in this study, one of the indicators is receiving ANC services at the nearest health center, and whether the husband accompanied the wife to get an HIV test. The results of research conducted by Nurjanah & Wahyono (2019) showed that the challenges in implementing the PMTCT program include lack of information on ART treatment, of family support, heavy workload experienced by health workers and limited HIV testing kits and drug stocks.

to research According by Nasution, Simanullang, & Angkat (2019), the majority (64.60%) of pregnant women were good at using VCT, while 35.40% were lacking in their use of VCT. The use of VCT can aid in reducing the transmission and improving prevention of HIV infection. This under-utilization of VCT by pregnant women occurs when respondents have been contacted by health workers, but the pregnant women ignore instructions from health workers and do not make VCT visits. Wiraharja, Trisnantoro, Mahendradhata, & Praptoharjo (2019) showed that integration has no direct impact on the results and is not a sole solution to the PMTCT issue. Influencing factors include resource factors,

inclusion of patients' needs and perspectives in the service, network and communications factors, external policy and incentives, leadership engagement and access to knowledge and information. Since the level of integration is not always related to the results of PMTCT, governmental efforts must focus on resources, the inclusion of patients' needs and perspective, building formal and informal networks and communications inside and outside public PHC, external policies and incentives, leadership engagement and access to knowledge and information.

The results of multivariate analysis showed that maternal age and gestational age were proven to be confounding variables that affected support and family healthcare function in using VCT. The maternal age variable showed that each increase in age of 1.04 years for pregnant women provides a 1.04 times greater chance of utilizing VCT health care facilities. The gestational age variable emerged as 0.93; this indicates that an additional one month of gestation will cause 0.93 times the chance of not using VCT. Research conducted by Rini (2019) shows that 78.50% of pregnant women between 20 - 35years underwent examinations in VCT services. Pregnant women who made a trimester 1 visit to VCT health services represented 93.80% of the total. Pregnant women who made more visits tended to be primipara or grand multipara (61.50%). The results of research conducted by Negash & Ehlers (2018) further show that PMTCT utilization is not limited by socio-demographic characteristics. PMTCT services have a high level of satisfaction because there is no stigma or disclosure of patients' HIV status.

Based on the results of research conducted by Kridawati, Sriwitati, & Cicilia (2015), 73% of pregnant women did not utilize HIV testing services. The most dominant variable related to the utilization of HIV testing services is husband or family support (OR 15.42). The results showed that respondents who received family support but did not utilize HIV testing services numbered 27

people (42.40%), while respondents who reported that they did not get family support and did not use HIV testing services numbered 83 people (96.50%). According to research conducted by Hikmah, Novitasari, & Aniroh (2015), another factor that was most dominant in influencing screening for HIV and AIDS among pregnant women was occupation, with an OR value of 9.28. Another study conducted by Ngoma-Hazemba & Ncama (2018) shows that partner support is key to preventing mother-to-child transmission of HIV. The results of this study indicate that couples are rarely involved in ANC. The involvement of partners during ANC and assistance during the use of health services is a shared responsibility.

According to Onono et al (2015), barriers to the utilization of PMTCT services for women social-ecological, individual, family, include community and structural determinations. The majority of pregnant women who have been diagnosed with HIV for the first time will struggle with the fear of losing their partner, including separation. Some respondents received different responses from families, particularly couples, ranging from violence to rejection, which resulted in pregnant women withdrawing from routine antenatal care. However, some also received positive responses and good support from their partners. Pregnant women who already know their HIV status report experiencing a lack of family support. There were 1,512 HIV-positive pregnant women identified with an average age of 28 years. HIV-positive pregnant women tended to be older than HIV-negative pregnant women. Unplanned pregnancy is a challenge for pregnant women who suffer from HIV, as is the selection of appropriate contraceptives to prevent an unplanned pregnancy (Iyun et al., 2018).

This study indicated that maternal age and gestational age both contribute to healthcare facility utilization. The varied age of respondents in this study also yielded varied descriptions of the use of health service facilities. Research conducted by Sitopu & Nduru (2018) reveals a significant relationship between knowledge and the use of VCT services. The higher the level of knowledge among pregnant women, the better their utilization of VCT services. Moreover, some pregnant women did not engage with VCT as they did not have good support from their husband or family. This is in line with research conducted by Sari, Sulistyono, & Notobroto (2017), reporting that ANC visits influenced the willingness of mothers to take an HIV test. The more often the women checked themselves for pregnancy, the higher their chance of taking an HIV test.

Research Limitations

The limitation of this study was the fact that the houses of the respondents were far apart from each other; therefore, the researchers took a long time to collect the data.

CONCLUSION

Family support and healthcare function was found to have an effect on increasing the use of VCT among pregnant women. The results of this study showed that family support and family healthcare function could encourage pregnant women to use VCT health care facilities.

CONFLICT OF INTEREST

This research shows that, so far, the utilization of health services for VCT has been carried out in the community. The policy of providing free services for pregnant women in conducting HIV and AIDS screening remains an obstacle in some places, because they are afraid to undergo the examination until they know that it can be done free of charge. As a result, VCT utilization rates in the community has not met the target. The results of this study can identify the support and function of family healthcare in the utilization of VCT health services.

AUTHOR CONTRIBUTIONS

Conceptualization, Methodology: NPWO, NLPD, IMSA, NWT. Data curation: NPWO, NLPD, IMSA, NWT. Formal analysis: IMSA, NPWO. Project administration: NLPD, NWT. Resources: NPWO, NLPD, IMSA, NWT. Supervision: NPWO, NLPD. Writing—Original draft: NPWO. Writing—Review and editing: NPWO, NLPD, IMSA, NWT.

ACKNOWLEDGMENTS

The researcher would like to thank the Technical Implementation Unit of Community Health in Gianyar district and the healthcare volunteers for helping the researchers with data collection and home visits. The researchers also thank all respondents who participated in this study.

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