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THE OUTCOME OF PMTCT GUIDELINE IMPLEMENTATION TOWARDS THE PROGRAM PERFORMANCE FOR THE ELIMINATION OF HIV TRANSMISSION FROM MOTHER TO CHILD IN DENPASAR CITY

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Abstract

UNAIDS report on the level of HIV transmission from mother to child shows that Indonesia is in the highest rank in the world. This study aims to conduct rapid assessment about the full extent of PMTCT program and services in Denpasar City, Bali. This study located Denpasar City as a capital of Bali with high HIV cases and currently apply PMTCT services. The study conducted through FGDs, in-depth interview and observation in the primary health centers and hospitals. The data was validated by triangulating data from several sources. The results showed that the there is no specific local policy for PMTCT programs and services. There is no PMTCT program management guideline or SOP for PMTCT services at the Health Office and primary health centers. In Denpasar City there are already 5 primary health centers that provide comprehensive HIV and AIDS prevention and treatment services (LKB), and this includes providing PMTCT services consisting of HIV testing and ARV treatment for pregnant women. However, there is no ARV treatment for infant, this service must be obtained at general hospital through a referral mechanism. There is funding from local government (APBD) to buy diagnostic test for HIV and to capacity strengthening of human resources, but no support for further laboratory examinations. The empowerment for midwives to be involved in PMTCT program is limited, there has never been a comprehensive training on PMTCT and no empowerment of private practice midwives for PMTCT. The assistance's activities to ensure ARV adherence is limited. There has been assistance for HIV positive mothers by NGOs in Denpasar City. Women with HIV still get stigma and discrimination from the community and health workers. There are also some challenges in data input, including error in inputting the data that need permission to edit it. It is recommended to improve: the HIV test coverage to 100% for pregnant women (for the first 90); the coverage and quality of ARV treatment (for the second 90); the capacity of PMTCT human resources; the commitment of local government; and data utilization.

Keywords: PMTCT, HIV, AIDS, South Sulawesi, Indonesia.





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Introduction

In Indonesia, an increase in HIV transmission from mother to child causes an increase in HIV infection among new-born. This condition seems to be related to low coverage of HIV testing and prompt antiretroviral (ARV) therapy in pregnant women in Indonesia. Only 28% pregnant women are HIV tested, and only 13% of HIV-positive pregnant women received ARV (UNAIDS, 2014). These figures are very far from the target coverage of Elimination of HIV Transmission from Mother to Child (EMTCT) set by WHO in 2015, which among the targets that at least 90% of all pregnant women living with HIV know their HIV status (WHO, 2015; Wariki et al., 2017). This target can only be achieved if all pregnant women get an HIV test when they visit antenatal care (ANC) services. In fact, the data have shown that the coverage of pregnant women visiting ANC in 2017 has been very high that is 95.4% (Ministry of Health RI, 2019) his condition, if used properly, constitutes a huge opportunity for Indonesia to achieve the national and global target.

The gaps also occur in the coverage of the EMTCT cascade in Indonesia, which is always low from year to year. This indicates that the program of EMTCT in

Indonesia has not been successful. The trend of coverage of HIV testing for pregnant women in Indonesia in 2015 was from only <1% which rose to 28% in 2017. The coverage of ARV treatment for pregnant women with HIV in Indonesia is also still low at 8% in 2015, 10% in 2016, and 13% in 2017. In sharp contrast, at the global level the proportion of HIV-positive pregnant women who receive ARVs in 2017 already reached 80% (UNAIDS, 2017).

Government policies regarding EMTCT have existed since 2013 (Kementerian Kesehatan RI, 2015). This raises the question why was EMTCT's coverage in Indonesia is still low until now. If this situation persists the program will never achieve its target. With the continuation of HIV transmissions from mother to child, Indonesia has not been able to break the chain of transmission, which implies that the transmission continues into the next generation (Gliddon et al., 2017). The implementation of the EMTCT program apparently has many obstacles including high levels of stigmatization (Ejigu & Tadesse, 2018), low levels of maternal knowledge about HIV and **EMTCT** (Deressa et al., 2014; Audureau et al., 2013) , negative perceptions of HIV





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sufferers (Ndege et al., 2016), and the cost of HIV testing and ARV (Muyunda & et al, 2018). There is a need to explore the reasons of low EMTCT coverage in Indonesia, thus we conducted this rapid assessment in Denpasar as the province with HIV highest prevalence.

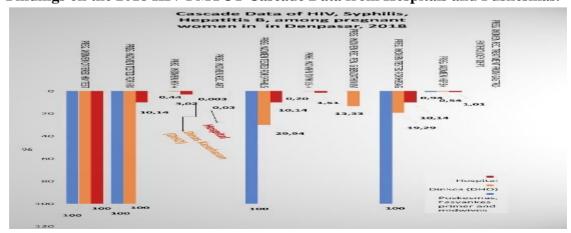
Method

The study conducted in Denpasar, Bali province with qualitative approach by using Rapid Assessment. Method used was focus group discussion (FGD), in-depth interview and observation in the primary health centers and hospitals. The instrument used was the questionnaire that adopted from WHO (2017). The data was taken by triangulating data from several sources breastfeeding (pregnant or women, midwives, HIV program managers in primary health centers, HIV program managers in hospitals, and program managers in the health office), taking into account aspects of the adequacy of participants (10 people are sufficient to accommodate variations of answers and can be managed maximally), as well as several methods (FGD, in-depth interviews, and field observations).

Data collection conducted through some steps: (1) implementation of FGD, in-depth interview and observation, (2) wrote transcript, (3) content analysis, (4) matrix development and (4) discussion development. There are 2 main findings that will be explained in discussions, first what is the program achievements and challenges in the field, to eliminate HIV transmission from mother to child. Second is what should be strategically done to eliminate HIV transmission from mother to child in Denpasar.

Results

A. Findings on the 2018 HIV PMTCT Cascade Data from Hospitals and Puskesmas.







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VARIABLE -	DENPASAR			
VARIADLE	PHC	HEALTHOFFICE	HOSPITAL	TOTAL
Number of women being recommended for test	1064	17173	1963	20,200
Number of pregnant women being tested	1064	17173	199	18,436
Number of pregnant women being tested HIV+	0	75	6	81
Number of HIV+ pregnant women who received ART	0	52	6	58

Figure 1. Cascade Data among Pregnant Women in Denpasar, 2018

B. FGD with pregnant or breastfeeding women

Table 1. Matrix of FGD Results from Pregnant or Breastfeeding Women in Denpasar City

Issues	Problem	Causes	Recommendation
Access to ANC services	Long queue time (about 30 minutes, if you come at 9 will beserved at 12).	PMTCT services only given once a week.	The frequency of ANC services with PMTCT should be added on other days or attempted with other media such as brochures, leaflets, or videos that could be showed during waiting for a call in the ANC room. At present there is only astanding banner.
PMTCT services	In HIV, syphilis and hepatitis B test, the information provided before the test is very limited. The complete information is provided for those who HIV positive.	Perhaps it was caused by limited-service time and the huge number of patients, so the information provided is very limited	Provision of complete informationcan be given in the form of a variety of media outside the pre-counseling session.
PMTCT services fee	There is financial support for the program	-	-
Community point of view about people living with HIV/AIDS	There was a fear of contracting from eats, drinks and hold hands with a people living with HIV. The neighbors of PLWHA also still discriminate, but after 2-3 years they begin to accept.	There is stigma and discrimination towards PLWHA in the community.	There is a need to give comprehensive information about HIV to the community to eliminate stigma and discrimination





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C. FGD with midwives from primary health centers and private practice. Table 2. Matrix of FGD Results of Midwives from primary health centers and private practices in Denpasar City

Issues	Problem	Causes	Recommendation
PMTCT services (mainly HIV test)	All midwives from primary health center have provided PMTCT services in the form of HIV testing for pregnant women. Midwives from private practices (BPM) refer pregnant women to the primary health center to get an HIV test, but many patientsdid not go because of the long queue in primary health center. If they test, it will be recorded in the MCH book.	Midwives from private practices (BPM) have not been trained in HIV testing so pregnant women should be referred to the primary health center, so there is a possibility for loss of follow-up cases. In addition, not all midwives apply universal precaution (UP) when serving pregnant women because there is discomfort for the patient.	Recommendation There is a need for OJT and the provision of logisticsfor HIV testing for BPM. The midwives should apply UP when examining pregnancy or assisting childbirth.
	There are also cases of pregnant women who did not go to ANC at all.	Reasons for pregnant women not checking for pregnancy to the primary health center or Posyandu are because the pregnancy is still tooearly, there was no transportation, no one is taking care the house, no husband's permission	Raise HIV awareness of pregnant women about the importance of HIV testing. Schedule a home visit.
	Midwives refuse PLHAs, or at least fear in providing services for them.	There is still stigma and discrimination in PLWHA.	Training for health workers to eliminat stigma and discrimination in people with HIV.
Treatment referral	An HIV-positive	The number of	It is necessary to





	pregnant woman cannot get ARV immediately when she is served at a non-LKB primary health center.	LKB primary health center only 5 sites.	consider the addition of LKB primary health center, especially those that have HIV positive among pregnant and breastfeeding women, bearing in mind that this situation indicates the number of HIV positive patients among the bridging population and key populations in the area.
Assistance for HIV positive women (social support)	Not all primary health centers can provide assistanceto HIV positive pregnant women	Not all primary health centers have LKB capacity, so they do notyet have an assistance mechanism for HIV positive women	It is necessary to add the LKB primary health center as mentioned above.
Adherence for ARV.	There were patients who claimed to be compliant with the treatment, butthey had AIDS symptoms.	Side effects of ARVs can cause a person to stop the treatment; such conditions should be handled by the assistantwho has a competency.	Empowerment of assistants to be able to provide deeper counseling about the side effects of ARVs, and what to do if youexperience this.
	There were also 2 women with HIV who stop the treatment because they feel dizzy and vomited due to side effects. They did not visit the health workers because they were taking care of their children.		
Recording (MCH book)	According to the midwives, all ANC activities including HIV testing are	-	-





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	recorded in the MCH handbook		
PMTCT service guidelines	The service guidelines (SOP) are existed at the Kassikassi and Jongaya primary health center only.	The absence of SOP in almost all primary healthcenters, both for HIV testing and treatment, including how to refer patients	Develop SOPs that can be applied at all primary health centers

D. FGD with HIV program manager in primary health center in Denpasar City Table 3. Matrix FGD with HIV Program Manager in Primary Health Center in Denpasar

Issues	Problemx	Causes	Recommendation
PMTCT Services	Provincial/City-level local guidelines do not yet exist on mandatory testing for HIV, syphilis and hepatitis B, but directly refer to national policies.	The commitment of the local government has not been sufficient	Develop provincial or City PMTCT Guideline
	There are no guidelines for HIV care in newborns		
	There are still ANC service flows in primary health center that do not explicitly mention HIV testing		
PMTCT program	The ANC target is too high	The target setting is not based on the baseline data of the previous year	The number of pregnant women as ANC target should bebased on real data
	Coverage and qualityhas not been achieves	Pregnant women did not ANC in primary health center but in private practice	Maximizing the role of environmental midwives, caring groups for pregnant women
		Pregnant women get	





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		HIV tested in hospital	
Logistic availability	There is once primary health centerstock out of reagent.	Insufficient logistical management	Strengthening logistics management both at the Health Office and at the Primary health centers
SIHA recording and reporting	There were many times error in data input	The data input staff must input the same data in different program	Data integration
Supervision	Supervision by the Health Office conducted every month to help HIV program manager ifthere is error in datainput	_	-

E. In-depth interview with HIV Program Manager in the Hospital Table 4. Matrix In-depth Interview with HIV Program Manager in Denpasar

Issues	Problem	Causes	Recommendation
PMTCT Services	There are still pregnant women coming to the hospital not being HIV tested	Their first ANC weredone at midwife fromprivate practice or private doctor, with the absence of HIV testing	Strengthening the network with midwives and doctor from private practices
	There are still HIV pregnant women whohave been referred from the primary health center do not get counseled on HIV	HIV testing in primary health center is inadequate in terms of counseling's place and counselor's competency	PMTCT training formidwives
	Pregnant women thathas been tested for HIV and are HIV positive did not immediately receive ARV treatment	Her condition was unstable by the presence of opportunistic infection (chronic diarrhea)	Make standard procedures for HIV patient with Opportunistic infection
	There was one case	Lack of family	Socialization to the





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	where a child did notHIV tested	awareness about the need for HIV testing in children	importance of HIV testing in children of HIV positive mother
		PCR to HIV test for children is not available	RSUD needs to be equipped with a PCR diagnostic tool
Treatment referral	Children born from an HIV mother do not get prophylactic treatment	Prophylactic ARVs are not available for children so they must be referred	RSUD must be able to conduct early infant diagnostics (EID) and have prophylactic ARVs for children
Assistance to HIV pregnant women	There has not been an assistance or support group for HIV positive pregnant women	Focus on building CST team in the hospital	Establish an HIV positive pregnant women assistance group, work together with hospital and NGOS in Denpasar
Adherence to ARV	CD4 examination for pregnant women cannot be done at thehospital	CD4 reagent is not available	RSUD provide CD4 reagent
	Viral load examination for pregnant women cannot be done in thehospital	Viral load reagents (such as from Abbott and Cobas) are not available	RSUD provide viralload reagent
Recording (MCH book).	For pregnant women who came to primaryhealth center for the first ANC, the HIV test results are recorded in MoH book, while those who have their first contact at the midwives from private practices are not recorded	Midwives from private practices (BPM) do not conduct HIV test	Training or OJT for midwives of private practice on HIV testing as well as training for recording.
PMTCT Service Guidelines	There is nothing explicit, and there isonly Perda HIV No.2/2016	PMTCT is still considered not a priority for specific policy	There is a need to develop Regulation from Head of City (Perbup)





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F. In-depth Interview with HIV Program Manager in Health Office Table 5. Matrix In-depth Interview with HIV program manager in Denpasar City's Health Office

Issues	Problem	Causes	Recommendation
PMTCT services	HIV tests in Denpasar City has not achieved 100% (79.8%)	The type of ANC services being accessed by pregnant women is still widespread	Empowerment for midwives so they can provide PMTCT services
		In general, almost all pregnant women have come to ANC services with various types of ANC providers. Most of the ANC services at the primary health center are by ASN midwives. There are also ASN midwives outside the primary health center, namely village's midwives (bidan desa) or posyandu. There are also some pregnant women that go to private services (private midwives, private doctors and private hospitals).	There is a need to establish mechanisms for a midwife to have an overall responsi environment (this bility for an activity is called Darling = Sadar Lingkungan/ Environmental Awareness). There is a need to involve ANC service providers from private practices Civil servant' midwives who provide services outside the primary health center will be
			health center will be equipped with a complete HIV test (Rapid test up to three times/R1-3
			ANC standard training for civil servant' midwives
			The ASN midwife also continued the results of this trainingto all non- civil servant'





			midwives through the mechanism of IBI meetings starting from the City levelto the lowest level atthe branch level.
			There is a need to establish OJT (on the job training) mechanism.
	Primary health centerin Denpasar cannot provide ARV	There is no ARV available in primary health center in Denpasar	Improve the competency of primary health center in Denpasar City to become LKB that canprovide ARV
	RSUD Salewanggang cannot assess the compliance to ARV	There is no reagent available to examine CD4 and viral load diRSUD Salewangang and should be referred to Wahidin General Hospital in Denpasar	Improve the competency of RSUD in Denpasar for CD 4 and viral loadexamination
	RSUD Salewangang does not have PMTCT services for children born from HIV positive mother	There is no ARV for pediatrics and early infant diagnostic (EID) available and should be referred to Wahidin General Hospital in Denpasar	Improve the competency of RSUD in Denpasar toprovide ARV for pediatric and early infant diagnostic (EID)
PMTCT Program	HIV testing at the primary health centeris only 1 time if the R-1 is negative. If R-1 is positive, confirmto R-2 and R-3 at the hospital	In the planning, there is only request R1	HIV testing with theRapid Test method can be done in full (3tests) in all primary health center and allother services
	The civil servant' midwives who provide ANC services outside the		





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	primary health centercan have tests but arenot complete (1 test only), which if foundpositive for confirmation will		
	be referred to the primary health center		
Management (HR, funding, logistic)	There is still a shortage of test kits and the availability of ARV	There is constraints in PMTCT funding	Training for HIV program manager
	Patients do not want to take ARV in Salewangang	Pharmacy for ARC and other drug is located in one place	
	Hospital	Disclosure of HIV status	
		Stigma and discrimination	
	There are still healthworkers who do notunderstand PMTCT services	Training held previously did not sufficient	Availability of competent human resources
	PWICI services		Competency-based training
	Lack of capacity and numbers of programmanagers	Limited OJT that attended by the program manager	Provide similar opportunity to all HIV program
		Lack of funds to develop human resource as HIV program manager	manager to attend OJT
	Unavailability of assistance and support group	Commitments for PMTCT services arejust beginning for standard service	Preparing outreach groups and assistants in collaboration with NGOs to reach and assist pregnant women to obtain information about HIV and assistance for HIV positive pregnant women





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Coordinativemeeting	There is still a lack of communication	Coordination with program managers at the primary health centers. Relations between the primary health center and the hospital went smoothly through the WA group	Hold regular coordination meeting
Policy	The local policy forPMTCT is not explicitly mentionedbut there is a regulation on HIV, Perda No 2/2016	Depend to national policy	Develop local guidelines for PMTCT services in Denpasar City

Discussion

This assessment focuses on eliminating HIV transmission from mother to child. The elimination means that there is no HIV transmission from mother to baby. This is only possible with 100% coverage of pregnant women who are tested for HIV in one working area and all HIV positive pregnant women should get ARV treatment immediately. Therefore, HIV transmission from pregnant women to their babies can be prevented completely. In this assessment, several progresses have been found in the Prevention of HIV Transmission from Mother to Child (PMTCT), in Denpasar. However, it appears that the current program achievement still has many obstacles that need to be addressed immediately. Fortunately, there is hope to implement the PMTCT program in order to have high coverage and quality to achieve zero new infection in newborns. This fourth section will comprehensively discuss the achievement and challenges of the PMTCT program's performance, and strategic steps to eliminate HIV transmission from mother to baby.

1. Achievements and Challenges to Eliminate HIV Transmission from Mother to Child, in Denpasar.

1.1. Policy.

The national and local policies on HIV and AIDS prevention and control have existed. Regarding PMTCT, there is only available a national policy, Minister of Health Regulation No.52/2017 that





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mandated all health facilities to implement elimination of HIV, and **Hepatitis** В syphilis transmission from mother to child. The local policies on PMTCT program management guidelines and standard operational procedures (SOPs) are not yet available. The government has issued Minister of Health Regulation No. 51/2013 on HIV AIDS Management Since 2010, South Sulawesi has released the Local Regulation (Perda) No. 4/2010 about the Prevention and Control of HIV and AIDS. For HIV treatment, at the national level there is a Minister of Health Regulation No. 87/2014 and it should be implemented in all health facilities, including primary health center. Primary health center that implement HIV testing and treatment called comprehensive sustainable service (Layanan Komprehensif Berkesinambungan/ LKB), unfortunately, in Denpasar City the number of LKB primary health center is still limited compared to the need for PMTCT services include HIV testing for

pregnant women, if she is HIV positive, she will immediately treated with ARV, as well as for ARVs and HIV testing for children.

1.2. Program Management Guidelines.

There are no program management for HIV guidelines program managers, especially for managers at the Health Office level and at the primary health center level. There are no standardized SOP for PMTCT services at the hospitals, health centers primary and midwives from private practices for The pregnant women. service procedures or flow of PMTCT are still different between the observed primary health centres. Integrated internal referral between programs at the primary health centre is already running, for example patients with abnormal vaginal discharge can be tested for syphilis, tuberculosis patients are required to have an HIV test.





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1.3. Comprehensive Sustainable Services.

In Denpasar City, there are 5 primary health centers that are able provide HIV and **AIDS** prevention and treatment, including for PMTCT services. It seems that Denpasar City still needs the addition of a primary health center with Comprehensive Sustainable Services (LKB) to be able to serve HIV positive pregnant women. However, there is no strong mechanism to decide the criteria for the establishment of the LKB primary health center, there is no supervision from the center. Up to now, the criteria used by the Health Office to add LKB primary health center is based on the readiness of human resources and logistics as well as the presence of HIV patients.

1.4. Program Coverage.

The coverage of HIV testing in pregnant women has not reached 100%. The Health Office in Denpasar City has not involved private hospitals and clinics yet. Those facilities only refer pregnant

women to undergo HIV testing to primary health center or local public hospital but most of these pregnant women did not test HIV. estimated that if Τt is the infrastructure and capacity of PMTCT's programs and services are still like this, the next coverage will not be able to reach 100%. The Health Office in Denpasar City is planned to conduct training for private sector (hospitals, clinics, midwives) to implement PMTCT services at the end of January 2020 with support from UNICEF. The HIV testing in the Daya Hospital been widespread to all has community, including pregnant women, but it has not been able to reach its full extent so there are still children who are infected with HIV. Children with chronic diarrhea and fever, oral candidiasis, bronchopneumonia will also be tested for HIV and it proves that not all pregnant women were tested for HIV. Besides providing the HIV testing at ANC services, patients who come to the hospital with diarrhea, TB, STIs, swollen glands, BB dropped dramatically,





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Hemoglobin, Hepatitis transvestites and MSM will also be tested for HIV. To check viral load, they will be referred to Local Health Laboratory (Labkesda) and it is free for patients who have just been treated for 6 months. Another problem in examining pregnant women is that they do not have complete knowledge about HIV before testing and the health worker emphasizes that this is mandatory. The reason is because there are many patients and long queues so they cannot provide complete information their to patients. As a result, many pregnant women who have been tested for HIV do not fully understand why the test should be carried out.

1.5. Funding.

Funds are available for the PMTCT for further program, except examinations. The laboratory availability of logistics and funding so far has been good, because it has been budgeted by the local government and patients to have health insurance, but if possible BPJS or APBD support further examinations for HIV patients, such as liver function (SGOT, SGPT), creatinine and X rays. Even though there was one case where a woman did not pay BPJS premium, thus delaying ANC services.

1.6. Positive Rate.

The proportion of HIV positive among pregnant women cannot be known exactly given the data collected is still in limited scope. It is suspected that the data obtained are still underestimate. According to PMTCT data in 2019, the coverage of pregnant women who tested for HIV in Denpasar City was still below 80%, pregnant women having HIV positive status ranging from 0.03% to 0.12%. Pregnant women who received ARV therapy 100% were Denpasar City.

1.7. Private Sector Involvement.

Empowerment of midwives to be involved in the PMTCT program is still limited. In terms of human resources, all midwives in primary health center in Denpasar City have been able to do so, in contrast to the





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midwives from private practices who have not received training, so their patients must be referred to the primary health center. There is a weakness for that referral system where patients did not come to primary health center as referred. There are several reasons given by patients who did not come to the primary health centers, including long queues, long distances and no one to assist their children in homes. A pregnant woman with HIV will be given ARV at the LKB's primary health center and given an explanation by a doctor. In Denpasar, a patient with HIV from a non-LKB primary health center, she will be referred to the LKB Puskesmas. Whereas in Denpasar, all primary health centers have not been LKB, thus patients will be referred to the City Hospital which has risk to be non-compliant to take medication due to access and side effects.

1.8. Support Mechanism.

Assistance mechanisms for compliance with medication are still limited. For HIV testing, the

primary health centers do not assist or accompany positive pregnant will only women and accompanied by NGOs in Denpasar if they are HIV positive, especially to monitor ARV adherence. In Daya Hospital, obstetric an gynecologist who has been trained was transferred to other places so there are no skilled doctors. For midwives, all of them can provide the services well, from MCH unit they will be referred to the laboratory for tests and if positive, they will be counseled by nurses. However, head of unit or program have managers rarely the opportunity to attend training.

1.9. Stigma and Discrimination.

Stigma and discrimination against HIV women is still high. They HIV experienced stigma and discrimination from health workers (midwives and dentists) and this was also admitted by the midwives from primary health centers and private practices. The midwives rejected HIV patients or even if they did not refuse, they felt worried in serving them. Besides





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from health workers. HIV women were also discriminated by the community around their homes, so they closed their status. Fortunately, there was one case that after 2 years the neighbors could accept their existence because of their personal approach and maintain good communication. In Denpasar there is an HIV positive woman who does not want to take drugs avoid stigma and discrimination from her environment so that she took other hospital to take ARV. In Denpasar, there were social factors such as the low involvement of men to access ANC in health facilities.

1.10. Data input.

There are some obstacles in data input. HIV data is recorded manually and then uploaded at the end of the month. If an input error occurs after the report is uploaded, then it cannot be opened, they should contact health office staff to open and edit it. Data from each unit has not been integrated, for example if one person checks in several units then the recording

staff must re-input all her/his individual characteristics such as place and date of birth, sex, etc. For supervision there is no standard for program management and supervision.

- 2. Strategic Steps to Eliminate HIV Transmission from Mother to Child, in Denpasar City.
 - 2.1. Improve coverage of pregnant women to be 100% HIV tested.

The coverage of pregnant women tested for HIV must be 100% and it has been done by primary health centers, but it has not been done by private services (clinics, hospitals and midwives). For primary health centers that have LKB, it is necessary to provide refreshing training to strengthen knowledge and skills to provide PMTCT services.

2.2. Improve the quality of ARV treatment in service site.\

To improve the quality of HIV treatment, a LKB primary health centers must have refreshing training related to PMTCT to increase the coverage of HIV test





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and treatment, including test and treatment for infants. It also needs to be considered to increase the number of LKB primary health center in Denpasar, there must be a minimum of 1-2 LKB primary health center, with consideration of the capacity, capability and burden of the manager which must begin with a site assessment. To ensure adherence for ARV, actually there is assistance, but there is a need to strengthen the capacity of the assistants in several aspects, first in terms of adherence to take medication, second, in handling complications and thirdly women who are taking medication must be able to handle their daily activities. It would be very difficult to expect daily supervision from health workers, so it is highly needed a social support from peers.

2.3. Improve the Capacity of Human Resources in PMTCT Services.

Human resources should get competency-based training suitable to service site in one teamwork, because OJT is still very limited. In addition, management guidelines and SOPs are needed at each service site (hospitals, health centers, midwives from privat e practices).

2.4. Commitment from Local Government.

Local governments should conduct community-based training, example the Darling program (Bidan Sadar Lingkungan) that is already running in Denpasar City where the midwives from primary health centers shows curiosity to all pregnant women to childbirth by using the MCH book as a standard. In addition, the local government is also expected to be able to increase human resource capacity and budget allocation.

2.5. Data Input.

PMTCT data is not available at all levels, but directly to the central.

Conclusion

The results conclude that there is no specific local policy for PMTCT programs and services. There is no PMTCT program management guideline or SOP for PMTCT services at the Health Office and primary





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health centers. In Denpasar City there are already 5 primary health centers that provide comprehensive HIV and AIDS prevention and treatment services (LKB), and this includes providing PMTCT services consisting of HIV testing and ARV treatment for pregnant women. However, there is no ARV treatment for infant, this service must be obtained at Wahidin General through Hospital a referral mechanism. There is funding from local government (APBD) to buy diagnostic test for HIV and to capacity strengthening of human resources, but no support for further laboratory examinations. The empowerment for midwives to be involved in PMTCT program is limited, there has never been a comprehensive training on PMTCT and no empowerment of private practice midwives for PMTCT. The assistance's activities to ensure ARV adherence is limited. There has been assistance for HIV positive mothers by NGOs in Denpasar City. Women with HIV still get stigma and discrimination from the community and health workers. There are also some challenges in data input, including error in inputting the data that need permission to edit it.

Suggestion

It is recommended to improve: the HIV test coverage to 100% for pregnant women (for the first 90); the coverage and quality of ARV treatment (for the second 90); the capacity of PMTCT human resources; the commitment of local government; and data utilization.

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