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Original Research Article

Quality of Life of HIV-AIDS Infected Pregnant Women in Medan, North Sumatera Province, Indonesia

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ABSTRACT

Background: The quality of life of pregnant women suffering from HIV-AIDS infection is affected by physical health aspects, psychological well-being, social relations and environmental life in the surrounding societies

Objectives: to determine the quality of life of pregnant women suffering from HIV-AIDS infection

Materials and Methods: The research design was descriptive methodology with 32 HIV-AIDSinfected pregnant women in Medan, recruited as samples. The data were taken by questionnaires had been modified to relate to pregnancy referring to questionnaires designed by WHOQOL- BREF. The research was conducted for three months, from October 2015 to February 2016.

Results: The resulted on the dimension of physical health aspect is 81.2% moderate, psychological health 78.1% moderate, social relation 87.5% moderate and environmental support 78.3% moderate. Thus it is needed that health care providers, family members and societies maximize their helping those HIV-AIDS-positive pregnant women in adapting to improve their quality of life on each dimension

Conclusion: Family members and society are advised to actively increase and play more roles in health services and treatment to lower possibility of disability of women with their conditions, so that they can live well with their pregnancy and improve their quality of life.

Keywords: Quality of Life, Pregnant, HIV-AIDS.

INTRODUCTION

Pregnant women who are being infected by HIV-AIDS are at high risk of maintaining reproductive health which needs acquisition and adaptation to changes in both them and in their families. These changes affect the quality of life of those individuals. The quality of life stresses the importance of someone's subjective perceptions on performing their own functional roles and comparing them to the internal, standard roles which they possess to embody something which is more idealistic and goes with what is to be

achieved. Based on the concept developed by WHOQL-BREF, quality of life can be measured by examining aspects namely physical health, psychological well-being, social relations and environmental relations. ⁽¹⁾ The risks of undergoing complications and anxiety of passing the infection to the babies which are being conceived can affect negatively the physical and psychological well-being of pregnant mothers. The complications referred to are ruptured perineum, defect baby birth, low birth weight, premature baby, and possible transmission HIV baby. of to

Psychological changes occurred are for example, ambivalence, doubt about her pregnancy, depression, excessive worry about the baby, and even postpartum blues after delivery. According to a research conducted by Kotze in South Africa, pregnant women suffered from HIV infection experience the increasing depression and anxiety of societal stigma. In term of social health, the HIV-AIDS patients face various social problems such stigmatization, discrimination. as environmental and social isolation.

International Centre for Research on Women (2003) cites that there are many forms of stigmatization, among them are nicknaming/ designating, pointing, scapegoating, quipping, laughing, labelling, blaming, shaming, judging, slandering, suspecting, ignoring, rejecting, isolating, not sharing things with people with HIV-AIDS, avoiding. staying away, disturbing. physically abusing, and torturing. According to surveys on the people with some degree of HIV-AIDS stigma, stigma and discrimination cause very bad psychological effect so that feeling guilty and ashamed and having desire to commit suicide emerge as a negative effect of the stigma and discrimination. ⁽³⁾ For HIV-AIDS infected pregnant mothers, delivery will become a fear especially regarding the possibility of transmitting the infection to others especially to the babies being conceived. In view of this, health care providers are called to conduct indeed studies on how the quality of life of pregnant women and its understanding relates to the treatment of pregnancy and the delivery by HIV-AIDS infected pregnant women.

Acquired Immunodeficiency Syndrome (AIDS) is a collective symptom as to diminishing ability to survive because of the infection of HIV in someone's body. This infection causes the patients to halt their immune system function and then the body will easily acquire various diseases. During pregnancy, the immune system function is forced to work more both in HIV positive and negative pregnant women.

Decreasing immunoglobulin decreases degree of complement at early pregnancy and the more significant decrease of immune is mediated by the cells during pregnancy.⁽⁴⁾ Pregnancy in women with HIV can lead to the decrease of CD4 counts which are varied among women and will (5) turn back to normal after delivery. Pregnancy management of women with HIV must be learnt in holistic view and should be perceived as a long-term treatment. Medical treatment for mothers with HIV ought to be fitted with the need of individual mother. Obstetrics management of HIV-infected mothers equals to that of HIV-negative mothers in most cases. ⁽⁶⁾ Utilizing the *antiretroviral* drugs at the time of pregnancy to inhibit the transmission of HIV to the baby must be supported and continued. The *postpartum* treatment should be accompanied with the availability of contraception, supply the baby feed and appropriate follow up treatment of the baby and mother. ⁽⁷⁾ The transmission of HIV to the baby is very likely, about 90% babies infected with HIV was passed from their mothers during pregnancy, delivery and breastfeeding. ⁽⁸⁾ Reported that there's significant increase in the number of children below 15 years old who are infected with HIV and about 1.2-2.9 million children.⁽⁴⁾ The contagion of HIV to children can happen biologically (Inherited Biological Risk) where the infection is directly passed from mother to baby conceived. ⁽³⁾ Else it can be transmitted through breastfeeding. ⁽⁹⁾

The success in medical care and treatment in preventing illnesses, and also improvement of quality of life can be measures to depict the health-related conditions of people in a country. According to WHOQOL quality of life is defined as individuals' perceptions of life roles in the cultural context and values which are believed in where the individuals live and their relations to the goal, hope and standards agreed upon by the people. ⁽¹⁾ This definition also considers social context and environment in measuring the quality of life

besides physical and psychological wellbeing. Someone's quality of life can be measured, according to Skevington, Lofty, and O'Connell (2004) who suggests that measuring quality of life can be done in two ways namely measuring the overall quality of life (quality of life is seen as individual's overall evaluation of himself/herself) or only measuring certain domains/ dimensions (quality of life is measured through certain domains of somebody). ^(10,20) Based on the concept developed by WHOQOL-BREF, the quality of life can be measured by aspects of physical health, psychological well-being, social relations and environment.

METHODOLOGY

This study is a descriptive research quality of life HIV-positive pregnant women in dimensions of physical state, psychological well-being, social relations and environmental relations. Samples were 32 pregnant women HIV-positive. The technique to collect samples of HIV- infected pregnant women was total sampling. The research was conducted for three months, from October 2015 to February 2016. The location was in Medan and the surrounding. Prior to data collecting, researcher first sat research ethical clearance test in ethical research committee at Nursing Department of North Sumatera University (USU). Instruments of the research were questionnaires of two categories. The first category is of demographic data and the second category is of quality of life of pregnant women. Instruments were in the form of questionnaires, namely questions about quality of life regarding pregnancy and referring to questionnaires developed by WHO named WHOQOL-BREF. The data analysis was univariate analysis on the demographic data and quality of life data.

RESULTS

The result of the study: based on characteristics of respondents' data, are explained in the following tables:

No.	Characteristics	Frequency (n)	Percentage (%)
1.	Age		
	a. High reproductive risk of age	16	50
	- < 20 year		
	- >35 year		
	b. No High reproductive risk age		
	20 – 35 year	16	50
2.	Paritas/number of children		
	a. Primigravida	16	50
	b. $2 - 3$ person	9	28
	c. > 3 person	7	20
3.	Gestation		
	a. Trimester I	10	31
	b. Trimester II	12	38
	c. Trimester III	10	31
4.	Religion		
	a. Islam/Muslim	17	53
	b. Kristen	11	34
	c. Buddha	4	13
5.	Education		
	a. Elementary school	4	13
	b. Junior high school	15	47
	c. Senior high school	10	13
	d. Undergraduate	3	9
6.	Working		
	a. Parmer	5	16
	b. Entrepreneur	18	56
	c. Government	1	3
	d. Housewife	8	25
7.	Income		
	a. < Rp 700.000,00	5	16
	b. Rp 700.000,00 - Rp 2.000.000,00	22	68
	c. > Rp 2.000.000,00	5	16
	Total	32	100

 Table 1: Frequency Distribution of HIV-positive Pregnant Women Based on Demographic Characteristics in the City of Medan (N=32)

Quality of Life of HIV-Infected Pregnant Women

The quality of life of pregnant women is showed in terms of all the dimensions in general.

 Table 2: Frequency Distribution of Quality of Life of HIV-Infected Pregnant Women in Terms of Dimensions (N=32)

Dimensions	Quality of Life					
	High		Moderate		Poor	
	(n)	%	(n)	%	(n)	%
Physical	5	15.6	26	81.2	1	15.6
Psychological	4	12.5	25	78.1	3	9.4
Social	0	0	28	87.5	4	12.5
Environmental	4	12.5	25	78.1	3	9.4

In view of the above table 2, it shows that the quality of life of HIVinfected pregnant women on the dimension of physical health in general is categorized moderate quality of about 81.2%, on the dimension of psychological health it is categorized moderate of about 78.1%, on the dimension of social relation it is categorized moderate of about 87.5% and poor of about 12.5%. Meanwhile in general the quality of life of HIV-infected pregnant women on the dimension of environmental relations is ranked moderate which amounts about 78.3%.

 Table 3: Frequency Distribution of Quality of Life of Both

 HIV-Positive Pregnant Women in General (N=32)

No.	Quality of Life Pregnant Women	(n)	(%)
1.	High	1	3
2.	Moderate	28	88
3.	Poor	3	9
	Total	32	100

DISCUSSION

HIV-AIDS-infected pregnant women together with their family members problems face some associated with reproductive health which then needs acquisition and adaptation to changes appearing in them, family members and even in social perceptions which eventually affect the quality of life of those HIV-AIDS-infected pregnant women. An illness or a certain condition that someone has can cause changes in their system and function of their body which then affect their selfconcept of many aspects like self-reflection, self-ideal, roles, and also prestige. ⁽¹¹⁾ HIV-AIDS-infected pregnant women will

undergo dependence on others to fulfil their basic needs and health due to the decrease in their bodily functions and their lowering energy and this fact makes those women feel incomplete of being mothers thus lose their self-prestige. If these changes are not integrated with the self-concept, the quality of life of the patients will fall lower drastically. ⁽¹²⁾ Quality of life of HIV-AIDSinfected pregnant women is related to the existence of changes in the reproductive both physically processes and psychologically. During pregnancy, women experience emotional changes which can lead to stress. ⁽¹³⁾

Physical health dimension demonstrates daily activities, dependence on drugs and on medical care, energy and fatigue, mobility, pain and discomfort, sleep and rest, and work capacity. ⁽¹⁴⁾ Daily activities explain the difficulty and ease that someone faces while he is working on daily activities. Dependence on drugs and medical support explains how care/ much dependence which a person weighs to consume drugs and to ask for other medical treatments while doing those daily activities. Energy and fatigue indicate the degree of sustainability that someone has while doing those activities. Mobility indicates the degree of move that someone can do whether it is slow or fast. Sleep and rest depict the quality of sleep and rest that someone has. Work capacity explains capacity that someone has to work.⁽¹⁵⁾

Dimension of psychological wellbeing consists of body image and appearance, negative emotions, positive emotions, self-esteem and thought, learning, memory, and concentration. Body image and appearance depicts that how an individual perceives his bodily state and how he looks. Negative feelings shows that there exist unhappy feelings somebody has. Positive emotions show happy and satisfying feelings. Self-esteem explains how an individual judges and reflects himself. Thinking, learning, memory and motivation show the cognitive state of an

individual which enable him to concentrate, learn, and run other cognitive activities. ⁽¹⁶⁾

Social relation dimension consists of personal relations, social support, and sexual activities. Personal relations show relationships of an individual with others. Social support shows that there is support given to an individual by surrounding Sexual activities environment. explain sexual intercourses that an individual has.⁽⁵⁾ Other than anxiety of contagion of the infection to the baby, HIV-AIDS-infected pregnant women have possibility to acquire many complications to the baby and the themselves. Among mother the complications are ruptured perineum, defect baby birth, low birth weight, premature baby, and possible transmission of HIV to baby.⁽²⁾

This fact causes psychological changes like ambivalence, doubt about her pregnancy, depression, excessive worry about the baby born, and even postpartum blues after delivery. According to a research conducted by Kotze in South Africa, HIVinfected pregnant women suffered from increasing depression and anxiety of societal stigma. In term of social health, the HIV-AIDS patients face various social stigmatization, problems such as discrimination, environmental and social isolation. These social conditions affect the psychological state of the pregnant women.

International Centre for Research on Women (2003) suggests that there are many forms of stigma, among them are designating, nicknaming/ pointing, scapegoating, quipping, laughing, labelling, blaming, shaming, judging, slandering, suspecting, ignoring, rejecting, isolating, not sharing things with people with HIV-AIDS, staying avoiding. away, disturbing, physically abusing, and torturing. People who suffer from any of these forms of stigma and discrimination are reported to have been negatively affected, including the loss of income, increasing cost of health care and treatment, isolation from society and inability to take part as a member of productive societies and all because of HIV status.

Environment dimension consists of financial sources, freedom, physical safety and security, health care and social care, home surrounding, opportunity to get new information and skill, participation and opportunity to go on vacation, physical environment, and transportation. Financial sources explain the financial situation of an individual. Freedom, physical safety and security are the degrees of security someone can perceive that affect his freedom.

Demographic and social factors in general are related to quality of life of someone, and pregnant women include. Factors that affect the quality of life are gender, education, profession/ job, age, income, and marriage status. ⁽¹⁷⁾ This opinion is in line with the theory suggesting that factors affecting the psychosocial adaptations are social economy, social culture, education, profession/ job, belief/ religion, environment and knowledge. (12) Based on the result of research of respondents' characteristic data, generally the pregnant women were categorized at high reproductive risk of age about 50%. Baxter, et al. (1998) and Dalkey (2002) found that demographic factors affected the quality of life perceived subjectively.⁽¹⁷⁾

According to characteristic data of women, in terms of education their education level was low so that their probability of improving their knowledge of health, pregnancy specifically, and HIV-AIDS, was small. The conditions of those women are parallel with opinion of Steward (1993) who suggests that information on someone's education and knowledge and on happening with his facts of what's environmental surrounding will be gained even if the information is hard to find, also implies that the level of education is one of factors that can affect the quality of life. Research done by Wahl, et al. (2004) reported that quality of life will increase along with the high level of education that someone has. Moons, et al. (2004) suggests that there exists difference of quality of life

among people who are students, people who work, people who do not work, and people who cannot work (or who have certain defects/ disabilities).⁽¹⁷⁾

HIV - AIDS - infected pregnant women are at high risk of reproductive processes and have effects on pregnancy or complications. Therefore it is very vital to do the right conduct in treating them, for example antenatal screening, drugs therapy, antenatal treatment, delivery treatment and postpartum treatment which copes universal precaution monitoring, perineum treatment, lochea. contraception usage, bleeding treatment, wound treatment, and other related infectious risks on HIV-AIDSpositive pregnant women. (18,19) Quality of life of HIV-AIDS-negative pregnant women in general is better than that of HIV-AIDSpositive pregnant women. This assumption is true to the fact that HIV-AIDS-infected pregnant women psychologically experience more changes in adaptive processes and pregnancy problems which make the women more isolated and prevent them from interacting with their social societies and thus diminish their quality of life. ^(14,20) These phenomena tell that the social support especially from family members can help someone to attain comfort and security, more attention, and more respect so that the individual is eased to adapt to new entities and to face other problems and even to accept himself. ^(21,22) Baltimore (2004) suggests that social support can help a woman understand and face life changes that have frequently occurred. Demonstrates that positive social and environmental support can reduce degree of stress and eventually enable them to cope with the stress, and improve the quality of life finally. (10,23)

CONCLUSIONS AND RECOMMENDATIONS

In line with the prior descriptions above, the conclusion is that:

1. The research on quality of life of pregnant women on the four dimensions resulted that the quality

of life of **HIV-AIDS-positive** pregnant women on the dimension of physical health aspect is 81.2% moderate and 15.6% poor; on the dimension of psychological health 78.1% moderate and 9.4% poor; on the dimension of social relation 87.5% moderate and 12.5% poor; dimension and on the of environmental support 78.3% moderate and 9.4% poor.

- 2. More health counselling and socialization are needed especially on physical and psychological adaptation of HIV-AIDS-infected pregnant women to new changes
- 3. In those aspects of life. Family members and society are advised to actively increase and play more roles in health services and treatment to lower possibility of disability of women with their conditions, so that they can live well with their pregnancy and improve their quality of life.

REFERENCES

- 1. WHOQOL Group. (1998). Development of the world health organization WHOQOL-BREF Quality of life Assessment. Psychological Medicine. Dibuka pada website http://www.who.int/mentalhealth/eviden ce/whoqolpdf pada tangal 25 Mei 2013.
- Reeder, S.J., Martin, L.L. & Koniak, D.(1997). Maternity nursing, family, newborn & women's health. (8nd ed.) Philadelphia: Lippncott.
- Kendall, T., & I. Danel (2014). Research and Evaluation Agenda for HIV and Maternal Health in sub-Saharan Africa: Women and Health Initiative Working Paper No.1. Women and Health Initiative, Harvard School of Public Health: Boston, MA. http://www.mhtf.org. Diperoleh tanggal 27 June 2014.
- 4. WHO. (2013). Women's experiences in services for preventing the mother-tochild transmission of HIV: a literature review.

- Surlis, S., & Hyde, A. (2001) HIVpositive patients experiences of stigma during hospitalization. *Journal of the Association of Nurses in AIDS Care*, 12(6):45-54 http://hdl.handle.net. Doi 10.1016/S1055-3290(06)60185-4.
- Chang, Viktor, T & Weissman, D.E. (2001). Fast Fact and Concept #52: Quality of Life. dibuka pada website http://www.my whatever.com pada tanggal 25 april 2013.
- Bobak, I. M., Lowdermilk, D. L., & Jensen, M. D. (2005). Maternity nursing. 4th ed. California: The CV. Mosby.
- Departemen Kesehatan RI. (2013). Riset Kesehatan dasar (Riskesdas) 2007: laporan nasional 2013. Jakarta: Badan penelitian dan pengembangan kesehatan depkes RI.
- Hamilton (1995) Dasar-dasar Keperawatan Maternitas, alih bahasa Ni Luh Gede Yasmin Asih, EGC, Jakarta. Notoadmodjo, S. (2003). Pendidikan dan Prilaku Kesehatan. Jakarta: Rineka Cipta.
- Sekarwiri, E.(2008). Hubungan Antara Kualitas Hidup Dengan Sense of Community. Dibuka pada website: http://www.google.co.id. Pada tanggal 25 Agustus 2013.
- Gorrie, T. M., McKinney, E. S., & Murray, S. S. (1998). Foundation of maternal newborn nursing, 2nd ed. California: Saunders.
- Hinks, A. (2010). When motherhood beckons: an exploration of the transition to motherhood for HIV positive women. The Journal of Bone and Joint Surgery (Br) 0301-620X/02/612641.
- 13. Matteson, P. S. (2001). Woman's health during the childbearing years: A

community baced approach. St. Louis: Mosby Inc.

- Streubert, H.J., & Carpenter, D.R. (1995). Qualitative research in nursing: advancing the humanistic imperative. Philadelphia. Lippincott Company.
- 15. Ibrahim, Z. (2002). *Psikologi Wanita* (terjemahan). Bandung. Pustaka Hidayah
- 16. Swasono, Meutia F.(1998). Kehamilan Kelahiran, Perawatan Ibu Dan Bayi Dalam Konteks Budaya. Jakarta. UI press.
- 17. Nofitri. (2009). Kualitas Hidup Penduduk Dewasa di Jakarta. Dibuka pada website: http://www.lontar.ui.ac.id dibuka tanggal 22 juni 2013.
- 18. Helen. F. (2001) *Perawatan Maternitas*, alih bahasa Yasmin Asih. EGC, Jakarta.
- 19. Steward, M.J. (1993). *Integrating social support in nursing*, New Delhi : Sage
- 20. O'Connel.R (2004). Issue in the Meansurement of health Quality of life. Center for health program Evaluasi dibuka pada website http://www. rodoconnorassooc. com/ issue_in_meansurment_of_qua.htm dibuka pada tanggal 22 juni 2013.
- 21. Pillitteri, A. (2003). Maternal & child health nursing: Care for chilberaing & childrearing family. (4th ed.), Philadelphia: Lippincott Williams & Wilkins.
- 22. Olds, S. B., London, M. L., & Ladewig, P. A. W. (2000). Maternal newborn nursing : A family and community-based approach.(6th ed.) New Jersey: Toronto: Prentice Hall Health.
- 23. Khamsawarde, N. (2010). Comparison of self-care behavior between HIV/AIDS infected and non-infected mothers. www.unaids.org. Diperoleh tanggal 29 November 2014.

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