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The 3rd International Conference on Public Health for Tropical and Coastal Development (ICOPH-TCD 2020) "Lifestyle and Environmental Changes: Challenges on Public Health in Tropical and Coastal Areas to Support SDG's Achievements"

with paper entitled as follows:

Health workers perceptions towards the compliance of Antenatal Care visit in Dumai city, Indonesia

> September, 29 - 30th , 2020 Semarang, Indonesia

Dr. Budiyono, S.KM., M.Kes Dean

Speaker: 5 SKP Moderator: 3 SKP Participant: 3 SKP Commitee: 3 SKP Presenter: 5 SKP IAKMI NO. 044/IAKMIPUSAT/SKP-III/2020 PERSAKMI NO.095/KEP/PP-PERSAKMI/C/VIII/2020

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ABSTRACT BOOK the 3rd COPH-TCD 2020

The 3rdInternational Conference on Public Health for Tropical and Coastal Development (ICOPH-TCD 2020) "Lifestyle and Environmental Changes: Challenges on Public Health in Tropical and Coastal Areas to Support SDG's Achievements"

September, 29 - 30th, 2020 Semarang, Indonesia

> FKM UNDIP Press

Publisher: FKM - UNDIP PRESS UNIVERSITAS DIPONEGORO SEMARANG ISBN: 978-602-6788-97-0







ABSTRACT BOOK The 3rd International Conference on Public Health for Tropical and Coastal Development (ICOPH-TCD) 2020 ©2020 FKM UNDIP PRESS

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Martha Irene Kartasurya Praba Ginandjar Nurjazuli Hanifa Maher Denny Lintang Dian Saraswati Naintina Lisnawati Alfi Fairuz Asna Sri Achadi Nugraheni Sri Winarni This abstract book is published by FKM UNDIP PRESS JI. Prof. Soedarto, SH, Tembalang Semarang 50275 Phone: +62-24-7460044 E-mail: fkmundip.press@gmail.com

ISBN : 978-602-5788-97-0

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Health workers perceptions towards the compliance of Antenatal Care visit in Dumai city, Indonesia

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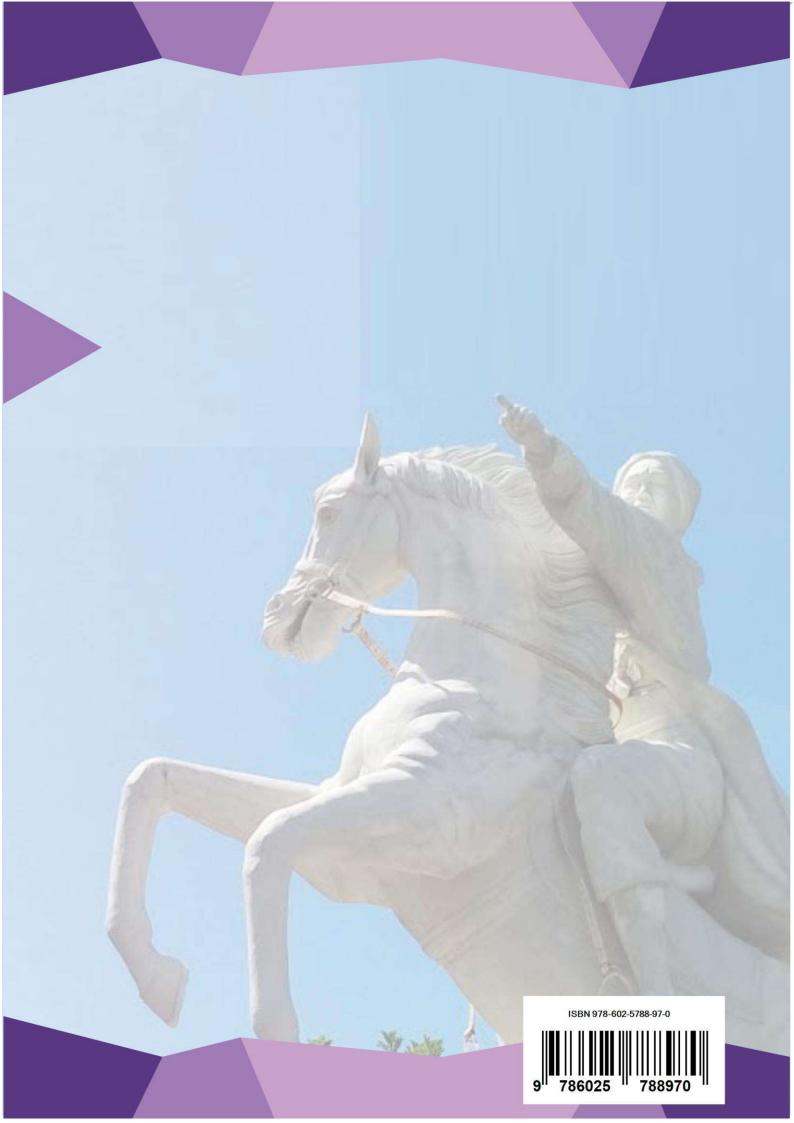
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Abstract

One of the efforts to reduce Maternal Mortality Rate (MMR) is to conduct Antenatal Care (ANC) programs routinely. Unfortunately, the problem is that the ANC coverage is still lowest in Dumai City, Indonesia. Objective. This study describes the perception of health workers towards the causes of the low coverage of ANC program visits. A qualitative approach with a phenomenological design. Data collection through in-depth interviews, Focus Group Discussions (FGD), and collected documents. Key informants consisted of Heads of Primary Health Care (10 subjects), Head of the Maternal Program, and Secretary of the Dumai City Health Minister. Data analysis used thematic analysis by transcripts text, meaning units, coding, and themes. This study explains that the causes of low ANC compliance based on worker's health perceptions are difficulties in accessing transportation in suburban areas. Low education and knowledge, still often seen less motivation of pregnant women to visit health facilities, communication, and work discipline of health workers lacking good, local myths, and culture about pregnancy. There are six themes obtained from this study, namely: accessibility, transportation, low education programs, transportation infrastructure, improve the quality of human health resources, and regulation.

Keywords: Antenatal Care, Compliance, Health Workers





Health Workers' Perceptions Toward the Compliance of Antenatal Care Visit in Dumai City, Indonesia

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Abstract

Background: One of the efforts to reduce Maternal Mortality Rate (MMR) is to conduct Antenatal Care (ANC) programs routinely. Unfortunately, the problem is that the ANC compliance coverage is still the lowest (71.5%) in Dumai City, Indonesia. Aims: This study describes the perception of health workers toward the causes of the low coverage of ANC program visits. Setting and Design: This study used qualitative approach with a phenomenological design. Methods and Material: Data were collected by means of in-depth interviews, Focus Group Discussions (FGD), and documents collection. Key informants consisted of midwives (10 subjects), Heads of Primary Health Care units (10 subjects), Head of Maternal Program, and Secretary of the Dumai City Health Office. Statistical analysis used: Data were analyzed using thematic analysis by transcript texts, meaning units, coding, and themes. **Results:** This study explained that the causes of low ANC compliance based on health workers' perceptions were the difficulties in accessing transportation in suburban areas, low education and knowledge, lack of motivation of pregnant women to visit health facilities, communication, poor work discipline of health workers, local myths, and culture about pregnancy. Conclusion: There were six themes obtained from this study, namely: accessibility and transportation, low level of education, motivation, communication, discipline, as well as myth and culture. It is necessary to develop health education programs and transportation infrastructure, as well as to improve the quality of health human resources and regulation.

Keywords: Antenatal Care, Compliance, Health Workers' Perceptions

Introduction

The high Maternal Mortality Rate (MMR) in Indonesia of 350/100,000 live births is a major problem. The Indonesian government has made several efforts to reduce MMR, including the Safe Motherhood Program, Mother Care Program, Making Pregnancy Safer, and the Maternal and Neonatal Survival Expanding program, even though the MMR is still not in line with the expected target of 102/100,000 live births.¹⁻³One of the efforts to reduce MMR is the attempt to focus on Antenatal Care (ANC) and maternal education. Twenty percent of pregnancies are predicted to experience complications, and 20.3% will result in mortality if no comprehensive treatment is carried out.^{4,5}

Routine ANC services can detect risks during pregnancy early.^{6,7}Four ANC visits are useful to reduce MMR in the world.^{8,9} Indicators of assessment of health services for pregnant women in Indonesia are seen through the coverage rates of K1 (1st ANC visit) and K4 (4th ANC visit). From 2005-2015, coverage of the 1st and 4th visits approached the target of 88.6%-95.7%. Riau is the province with the lowest K4 coverage at 85.67%. Dumai City is one of the cities in Riau Province with the lowest ANC coverage (74.9% for the 1st visit and 71.57% for the 4th visit).²

The behavior to conduct ANC visits is an individual perception that is influenced by three domains: knowledge, attitude, and practice.¹⁰The low number of ANC services utilization is caused by the lack of focus on the quality of ANC services such as facilities, health workers, economic aspect, and socio-cultural aspect.¹¹⁻¹³However, in this study, we want to discover the cause of the low number of ANC program coverage from the perception of health workers.

Subjects and Methods

The research method used was qualitative with phenomenological design. There were 22 respondents who participated in this study. They consisted of ten midwives, ten heads of Primary Health Care units in Dumai City, secretary of the Health Office, and head of maternal program. The research was conducted for four months (June-September 2019). The process of data collection was carried out using in-depth interviews, FGD, and documents collection. The in-depth interview process took an average of 30-45 minutes. The duration of FGD was approximately \pm 120 minutes. The FGD was guided by facilitator using semi-structured discussion guidelines. Data were analyzed using thematic analysis by transcript texts, meaning units, coding, and themes.

Results and Discussion

ANC is a pregnancy checkup conducted to optimize the mental and physical health of pregnant women.^{14,15}The purpose of ANC visit is to facilitate and manage pregnancy complications promptly in order to reduce maternal mortality.¹⁶ Research related to risk factors for Maternal Mortality explain that the number of ANC visit is still low, which results in increased morbidity and mortality.^{17,18}

Several causes of ANC compliance are knowledge, attitudes, beliefs, motivations, self-concept, age, experience, and health workers' skills.^{19,20} Interactions with the closest people refer to family support, husband support, and social community support.²¹⁻²³ Health service facilities, health workers' skills, and transportation access also become other factors.^{24,25}

1. Accessibility and Transportation

Many rivers surrounded the geographical location of this area, meaning that pregnant women's access to health care was quite far. Moreover, access to public transportation was infrequent. Some of these reasons often became the reason for pregnant women to not routinely visit ANC unit. The following are several quotes from the interviews:

"It is true that distance is a problem for the pregnant women, that is the reason why I cannot tell them about the schedule of pregnancy checkup, as the distance is just too far "(Midwife 1) Text 1

"The obstacles faced are quite possibly the distance that must be covered, as well as the fact that no one wants to escort the women to the health center" (P-1)Text 1

"One of the obstacles is transportation, and some mothers have to wait for their husbands" (P-2) Text 2

"Because of their geographical location, the two locations are difficult to access" (P-3) Text 3

"The obstacle in our place is usually the long distance, and the road is not easy to traverse. Yeah, there are no primary health facilities" (P-4) Text 4

The geographical condition of an area strongly influences pregnant women's access to health facilities.²⁶Access to cover the distance and transportation problems have always been significant obstacles in this area.

2. Low Level of Education

The majority of pregnant women in the area only graduated from junior high and senior high school.

There were even those who were elementary school graduates. Low level of education affects personal knowledge.²⁷The following are some quotes from the interviews:

"The average education level of pregnant women here is still low, Senior High School is the highest degree here, it's rare, especially in the similar Bagan Keladi area, there are junior high school graduates, some are even elementary school graduates, but they can read "(Midwife 2, 3,4) Text 2

"How to put this... the lack of public knowledge regarding the importance of pregnancy checkup is the problem " (P-5) Text 5

"Lack of maternal knowledge, lack of important information concerning pregnancy checkup" (P-6). Text 6

Level of education can affect individual mindset as it determines the ability to obtain information; maturity of thought is accompanied by the status of the level of education. Mothers who live in rural areas with low levels of education and low socioeconomic conditions tend to not make regular ANC visits.²⁸

3. Motivation

Motivation is a condition within a person that drives an individual's desire to do certain activities. The desire of pregnant women to do ANC in this area was still low. The following are several quotes from the interviews:

- "There are pregnant women who are ashamed to undergo pregnancy checkup because they already have many children (midwife 5) Text 3
- "We always inform pregnant women to take pregnant women classes, but they always have a lot of excuses. No one can take them there, their children cannot look after the house, those are examples of their excuses (midwife 6) Text 4
- "Our area is in the middle of the city, yet there are still many pregnant women who are too lazy to undergo pregnancy checkup at the primary health center unit" (P-7) Text 7
- "Sometimes the pregnant women do not feel any medical complaints, so they think that there is no need for routine ANC visit " (P-8) Text 8
- "The point is, we see that the desire of pregnant women to do pregnancy checkup is still lacking" (P-11) Text 9

One of the causes of the low motivation to undergo pregnancy checkup is ignorance regarding pregnancy. This is usually experienced by adolescent pregnant women and mothers who already have many children.^{29, 30Grand} multiparas are susceptible to the risk of hypertension, pre-eclampsia, and eclampsia. The rates of such incidence are still high in developing countries.³¹⁻³³

4. Communication

Excellent communication between health workers and patients will result in satisfaction toward the health service.^{34,35} Patients will feel comfortable and obtain sufficient information if the delivery of information is conducted communicatively. The following are interview quotes about the communication problem;

- "It is difficult to communicate with areas that are far from the Primary Health Care unit due to bad signals, the electricity also often goes out, meaning that they cannot receive any information(midwife 7) Text 5
- "The obstacle that we experience is usually about the character of the health workers. Their manners when communicating with patients are sometimes not good" (P-3) Text 10
- "Actually, if given the information to routinely conduct pregnancy checkup as well as the checkup schedule, pregnant women would definitely want to come" (P-12). Text 11

In this study, the condition of the education level of pregnant women in this area was still low, so a communication approach that was easily understood by pregnant women was needed.

5. Discipline

Work discipline does not just suddenly appear, but it is the result of a continuous learning process. Increasing the control of health workers will create high performance. Customer satisfaction will emerge from the services provided by creating quality health services. In this study, the discipline of health workers was still a problem. The following are some quotes from the interview:

[&]quot;They do not come regularly according to their pregnancy. In the first trimester of pregnancy they do not want to leave the house so they miss their first visit (Midwife 8) Text 6

"Sometimes this is just a program, and it does not run optimally due to the lack of discipline. There is no in-depth evaluation of this program" (P-9) Text 12

"There must be appropriate regulations for the performance of midwives. They will work in a disciplined manner if they have the right amount of salary" (P-11) Text 13

To improve discipline, proper guidance and regulations regarding the quality of human resources are needed. One of the controls is time discipline. Time discipline determines the quality of work in priority health services.

6. Myth and Culture

During pregnancy, mothers are advised to understand which information are correct and which ones are only myths. In this study, the myth and culture of the people in this city were that in the first-trimester of pregnancy women could not leave their home. There were pregnant women who still visited Shaman to get her pregnancy examined. The following are the interview quotes:

"They still go to the shaman to be examined, even if it's just for massage. Their reason is that they are comfortable with the shaman and they have known them from their family for a long time" (midwife 9, 10) Text 7

"Pregnant women still want to be examined by a shaman because they still feel comfortable and the practice has become a custom" (P-6) Text 14

"Sometimes, there is a myth from the family. If you are still in the first trimester of pregnancy, you should not leave the house, and thus the pregnant women will miss the K1 coverage" (P-10) Text 15

Trust in shamans depends on individual character.³⁶So it needs a personal approach in providing the right understanding of these characters. Personal approaches and the provision of health information about the importance of handling health services by health workers. The stages of the process of qualitative analysis are transcript texts, meaning units, coding, and themes.

Respondent	Transcript Text		Meaning Unit		Coding	Theme
M-1	Text 1	0	Long distance	0	Distance	Access
M-2,3,4	Text 2	0	Low education	0	Education	Education
M-5	Text 3	0	Ashamed to be examined	0	Low knowledge level	Motivation
M-6	Text 4	0	No one can escort to health center	0	Transportation	Transportation
M-7	Text 5	0	Difficult communication	0	Signal error	Communication
M-8	Text 6	0	Unwillingness to come routinely	0	No regular checkups	Discipline
M-9	Text 7	0	Go to the shaman to be	0	Comfortable	Myth
M-10	Text 7	0	examined Family advice	0	Family support	Family Culture

Table 1. Summary of Qualitative Analysis Steps from Key Informants

Abbreviation = M: Midwife

Respondent	Transcript Text		Meaning Unit		Coding	Theme
P-1	Text 1	0	Long distance	0	Distance	Access
		0	No one can escort to health center	0	Escort	Transportation
P-2	Text 2	0	Transportation issue	0	Transportation	Transportation
		0	Wait for husband to escort	0	Wait for husband	
P-3	Text 3	0	Geographical location	0	Location	Access
		0	Difficult to access	0	Access	
P-4	Text 4	0	Long distance	0	Distance	Access
		0	The road is not easy to traverse	0	Access	
P-5	Text 5	0	Lack of knowledge	0	Knowledge	Education
		0	Information check	0	Information	
P-6	Text 6	0	Maternal knowledge	0	Knowledge	Low Education
		0	Pregnancy risk	0	Information	Level
P-7	Text 7	0	Too lazy to undergo checkup	0	Lazy	Motivation
		0	Go to the doctors' clinic	0	Clinic	
P-8	Text 8	0	Does not have any medical complaints	0	No complaints	Motivation
P-11	Text 9	0	The pregnant women's lack of desire	0	Lack of desire	Motivation
P-3	Text 10	0	The characters of health	0	Character	Communication
-			workers	0	Communication	
		0	Communication with patients			
P-12	Text 11	0	Informed to check routinely	о	Information	Communication
P-9	Text 12	0	Lack of discipline program	0	Discipline program	Discipline
P-11	Text 13	0	Work discipline	0	Discipline	Discipline
P-6	Text 14	0	Examined by a shaman	0	Shaman	Culture
P-10	Text 15	0	Myth from the family	0	Myth	Myth

Table 2. Summary of Qualitative Analysis Steps from Supporting Informants

Abbreviation = P: Person

Tables1 and 2 shows that based on health worker's perception, the factors that caused the low coverage of the ANC program were transportation, education, motivation, communication, discipline, myth, and culture. The limitation of this study was the fact that it only determined the perception of health workers. Further research is needed for other perspectives (pregnant women, social support, and other communities).

Conclusion

This study concluded that the six causes of low ANC compliance in Dumai City were accessibility and transportation, education, motivation, communication, discipline, as well as myth and culture. It is necessary to develop an ANC program to increase the coverage of ANC visits, especially by creating and promoting health education programs, completing the infrastructure of transportation, improving the quality of health human resources, and issuing appropriate government regulation.

Acknowledgments

We hereby thank all informants who participated in this study.

Source(s) of support : NA

Conflicting Interest : none

Ethical Clearance

The Ethics Committee for Health Research, Diponegoro University (No.240/EA/KEPK-FKM/2018).

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