



The Role of Cultural Capital in Strengthening the Relationship between Need and Demand for Contraceptive Devices and Drugs in Several Cultural Areas in Indonesia

Lamia Diang Mahalia^{1,2}, Stefanus Supriyanto³*

¹Doctoral Program of Public Health, Faculty of Public Health, Universitas Airlangga, Surabaya, Indonesia; ²Health Polytechnic Ministry of Health, Palangka Raya, Indonesia; ³Department of Health Policy and Administration, Faculty of Public Health, Universitas Airlangga, Surabaya, Indonesia

Abstract

Edited by: Sasho Stoleski Citation: Mahalia LD, Supriyanto S. The Role of Cultural Capital in Strengthening the Relationship between Need and Demand for Contraceptive Devices and Drugs in Several Cultural Areas in Indonesia. Open Access Maced J Med Sci. 2021 Oct 17; 9(E):1036-1040. https://doi. org/10.3889/oamjms.2021.7039 Keywords: Contraceptive and cultural capital; Contraceptive need and demand; Contraceptive davice and drugs *Correspondence: Stefanus Supriyanto, Department of Health Policy and Administration, Facality of Public Health, Universitas Airlangga, Surabaya, Indonesia. E-mail: stefpriyanto49@gmail.com Received: 10-Aug-2021 Revised: 07-Oct-2021 Accepted: 07-Oct-2021 Copyright: © 2021 Lamia Diang Mahalia, Stefanus Supriyanto Funding: This research did not receive any financial support.

Competing interests: the aduntors have declared that no competing interests exist. Open Access: This is an open-access article distributed under the terms of the Creative Commons Attribution-NonCommercial 4.0 International License (CC BY-NC 4.0) **BACKGROUND:** Acceptor's decision to use particular contraceptive devices/drugs is influenced by cultural capital. Cultural capital has three forms: Embodied state, objectified state, and institutionalized state.

AIM: This study aimed to analyze the influence of culture as a moderating variable on the relationship between need and demand for contraceptive devices/drugs in several cultural areas in Indonesia.

METHODS: This observational study used a cross-sectional design. The criteria for research subjects were: (1) Women at child-bearing age who were currently using contraceptive devices/drugs of IUD, implants, pills, or injections; (2) Aged 15–49 years old; and (3) Indonesian citizens who come from Dayak and Javanese cultural areas. Sampling was performed using the multistage random sampling technique. The data were obtained through questionnaire and analyzed using the Partial Least Square (PLS) statistical test.

RESULTS: The results of statistical tests showed that there was a significant relationship between the need and use of contraception (p = 0.000). The amount of influence between need and demand for contraceptive devices/drugs contraceptives reached 79.2% (R2 = 0.7 92). It was found that cultural capital (objectified state and institutionalized state) did not have a significant relationship with demand (p = 0.113) and had an insignificant moderating effect value (p = 0.722). Thus, it can be interpreted that cultural capital (objectified state and institutionalized state) is a variable that has the potential to become a moderating variable that can affect the strength of the relationship between need and demand. The original sample moderating effect value was positive at 0.017, meaning that the cultural capital moderating variable can strengthen the relationship between the need and demand for contraceptive devices/drugs.

CONCLUSION: There is a significant relationship between need and demand for contraceptive devices/drugs. Culture capital (objectified state and institutionalized state) is a variable that has the potential to become a moderating variable that can strengthen the relationship between the need and demand for contraceptive devices/drugs. Therefore, a cultural approach is needed so that acceptors can use contraceptive devices/drugs that suit their needs.

Introduction

As social beings, human life cannot be separated from cultural influences [1]. Every couple who uses contraceptive devices/drugs is founded by a clear need [2]. One of the factors affecting the acceptors' decision to use contraceptive devices/drugs is culture [3].

The question raised regarding whether the contraceptive devices/drugs they use really suits his needs can be influenced by the cultural factors. Pierre Bourdieu divided cultural capital into three forms, namely the embodied state, objectified state, and institutionalized state [4], [5]. The embodied state is related to the convenience of using contraceptive devices/drugs to the acceptor's body. The objective state is related to the safety of the contraceptive devices/ drugs used, while the institutionalized state is related to the

institutional support for the acceptors' participation in the Family Planning program.

Each ethnic group has a unique culture. Indonesia, as a multicultural or multi-ethnic country, has a very large number of ethnic groups. The differences between ethnic groups in Indonesia can be seen in all their activities and social interactions, including the need and demand for contraceptives. Ethnographic benchmarks emphasize the cultural aspects inherent in a social system. Some examples of ethnic groups in Indonesia whose populations are quite large are Dayak and Javanese [6], [7], [8]. The growing multicultural demographics of public health status have challenged health systems to consider cultural competence as a priority [9]. Therefore, the researcher tried to analyze the influence of culture as a moderating variable on the relationship between need and demand for contraceptive devices/drugs in several cultural areas in Indonesia. The results of this

study are expected to become input to the relevant government in making a strategy for handling the problem of population through the use of contraceptive devices/drugs suitable for the acceptor's needs using a cultural capital approach.

Material and Methods

This research was done by using an observational approach with cross-sectional design. The study was conducted in Central Kalimantan Province from September to October 2020. The criteria for the research subjects were: (1) Women of reproductive age who were using contraceptive devices/drugs of IUD, implants, pills, or injections; (2) Aged 15–49 years old; and (3) Indonesian citizens who come from Dayak and Javanese cultural areas.

Sampling was performed through a multistage random sampling technique consisting of four steps, namely: (1) Identifying and determining districts in Central Kalimantan that have different cultures; (2) Identifying and determining the sub-districts based on its culture; (3) Identifying and determining the village/ sub-village in each sub-district; and (4) Determining the sample size of each village/sub-village. Data were obtained by using a questionnaire. The questionnaires results were then analyzed using the univariate analysis and presented in the form of a frequency distribution table, and multivariate analysis using the Partial Least Square (PLS) statistical test.

Results

Embodied state

The embodied state is an intrinsic factor in a person's self or body that is related to the convenience of using contraceptive devices/drugs to the acceptor's body. The results of the frequency distribution of respondents' answers about cultural capital based on the embodied state category (Table 1) indicate that the highest frequency of answers is that respondents felt very comfortable with the contraceptive devices/drugs used.

Table 1: The Distribution of cultural capital frequencies based on embodied state categories among respondents in Dayak and Javanese cultural areas

Embodied State	Dayak		Javanese		Total	
	n	%	n	%	n	%
Quite comfortable	0	0.0	1	3,1	1	1.5
Comfortable	7	20.6	8	25.0	15	22.7
Very comfortable	27	79.4	23	71.9	50	75.8
Total	34	100.0	32	100.0	66	100.0

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Table 2: Distribution of cultural capital frequencies based on objectified state categories among respondents in Dayak and Javanese cultural areas

Objectified state	Dayak		Javanese		Total	
	N	%	Ν	%	n	%
Quite safe	1	2.9	0	0.0	1	1.5
Secure	6	17.6	14	43.8	20	30.3
Very safe	27	79.4	18	56.3	45	68.2
Total	34	100.0	32	100.0	66	100.0

Objectified state

The objectified state is the possession of contraceptive devices/drugs related to the safety of the contraceptive devices/drugs used. The results of the frequency distribution of respondents' answers about cultural capital based on the objectified state categories (Table 2) indicate that the most answers is that respondents felt very safe in using contraceptive devices/drugs.

Institutionalized state

Institutionalized state is related to institutional support to the acceptor's participation in the Family Planning program. This institutional support includes support from the local governments, midwives, family planning field officers, family planning cadres, community and religious leaders, as well as friends and neighbors. This form of support can be provided through health promotion efforts, to increase acceptors' motivation in striving for optimal health and to support them in using contraceptives toward a better health condition [10]. The results of the frequency distribution of respondents' answers about cultural capital based on the institutionalized state categories (Table 3) indicate that the highest frequency of answers is that respondents were supported to use contraceptive devices/drugs.

Table 3: Distribution of the cultural capital frequency based on the institutionalized state categories among respondents in Dayak and Javanese cultural areas

Institutionalized state	Dayak		Javanese		Total	
	n	%	n	%	n	%
Quite supported	0	0.0	0	0.0	0	0.0
Supported	16	47.1	20	62.5	36	54.5
Strongly supported	18	52.9	12	37.5	30	45.5
Total	34	100.0	32	100.0	66	100.0

Model analysis using partial least square (PLS) statistical test

The model analysis was performed using the Partial Least Square (PLS) statistical test to examine the effect of cultural capital moderating variables on the relationship between the need and demand for contraceptive devices/ drugs. Model analysis was carried out through the initial model evaluation stage and hypothesis testing.

Evaluation of the initial model

The initial model evaluation was made using the PLS statistical test. The results figure of the initial model evaluation is presented in Figure 1.

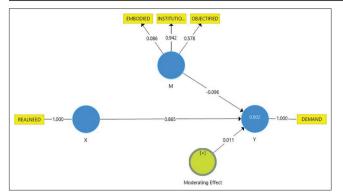


Figure 1: Initial model evaluation model

Based on the value of Construct Reliability and Validity, it was known that the Average Variance Extracted (AVE) value of the latent variable M has not been fulfilled (not yet fit), so the smallest outer loading value, which is embodied, must be removed from the model. After the embodied state variable indicator was removed, a valid structural model was obtained in which the Average Variance Extracted (AVE) value in the latent variable M was fit. The values of Construct Reliability and Validity of the valid structural models are presented in Table 4.

 Table 4: The value of construct reliability and validity of valid

 structural model

Variable	Cronbach's alpha	rho_A	Composite reliability	Average variance extracted (AVE)
M	0.465	0.721	0.760	0.626
Moderating effect 1	1.000	1.000	1.000	1.000
X	1.000	1.000	1.000	1.000
Y	1.000	1.000	1.000	1.000

Further testing was then carried out against the valid structural model, namely hypothesis testing. The valid structural model is presented in Figure 2.

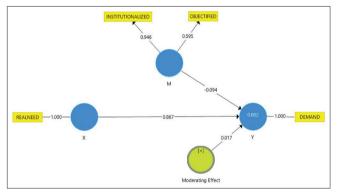


Figure 2: The valid structural model

Hypothesis testing

The influence of the cultural capital moderating variable on the relationship between the need and

Table 5: The p-value on the influence of cultural capital moderator variables on the relationship between need and demand in Dayak and Javanese cultural areas.

Path	Original sample	p-value	Significance
	(0)		
Cultural capital	-0.094	0.113	Not significant
(objectified state, institutionalized			
state) →□ Demand			
Moderating effect →□ Demand	0.017	0.722	Not significant
Need →□ Demand	0.867	0.000	Significant

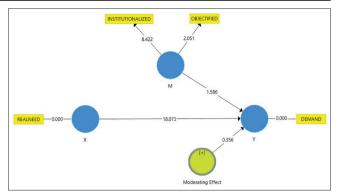


Figure 3: The fit model of the cultural capital influence on the relationship between need and demand for contraceptive devices/drugs in Dayak and Javanese cultural areas

demand for contraceptive devices/drugs in Dayak and Javanese cultural areas presented in Figure 3 can be further explained in Table 5.

The results of hypothesis testing as presented in Figure 3 and Table 5 can be further explained as follows:

- The relationship between need and demand is significant with a p-value of 0.000. Thus, the results of statistical tests showed that there was a significant relationship between the need and demand for contraceptive devices/drugs. The amount of influence between the need and the demand shown by the R² value was 0.792, indicating that the effect between the need and the demand is equal to 79.2%.
 Cultural capital (objectified state and
 - Cultural (objectified capital state and institutionalized state) had no significant correlation with the demand (p = 0.113), and had no significant moderating effect value (p = 0.722). Thus, the results of statistical tests showed that culture (objectified state and institutionalized state) is a variable that has the potential to become a moderating variable (homologous moderator) which can influence the strength of the relationship between need and demand for contraceptive devices/drugs [11]. The original sample value was 0.017, meaning that the moderating cultural capital variable strengthened the relationship between the need and demand for contraceptive devices/drugs.

Discussion

Need and demand for contraceptive devices/ drugs had a significant relationship where the strength of the relationship is influenced by the cultural capital moderating variable. This finding was supported by several research related to need, demand, and supply chain management. The balance between need and demand will ultimately affect the supply of contraceptives so that they can meet the needs of acceptors [12], [13]. The acceptor has needs, wants, and necessities, all of which require fulfillment in the form of goods, including contraceptive devices/medicines. The use of contraceptives devices/drugs will cause desire, and this desire will in turn generate demand. One of the efforts that the government can make in the success of the family planning program is to identify the needs of acceptors through a cultural capital approach so that they can use contraceptive devices/drugs that suit their needs [14], [15], [16], [17]. The understanding about cultural factors can help health workers and policy-makers in educating the public about the importance of health, including the use of contraceptives [18].

The influence of cultural capital on the relationship between need and demand for contraceptive devices/drugs is viewed from three aspects, namely the embodied state, objectified state, and institutionalized state [19]. Culture plays a role in determining a person's behavior for family planning [20]. The results showed that culture (objectified state and institutionalized state) is a variable that has the potential to become a moderating variable in influencing the strength of the relationship between need and demand for contraceptive devices/drugs.

The objective state of cultural capital refers to "cultural goods" where in this study, it refers to contraceptive devices/drugs. The objectified state is the possession of contraceptive devices/drugs related to the safety of the contraceptive devices/ drugs used [19], [21], [22]. Acceptors are more interested in using contraceptive devices/drugs after knowing the practical benefits and safety level of contraceptives that will affect their bodies. This shows that the acceptors' knowledge/understanding of the benefits and side effects of allocones play a role in forming the objectified state [23]. The safety in question is the acceptor's perception when seeing or witnessing the effects of using the type of contraceptive devices/drugs used, such as making the acceptor's body fat [24].

In general, people follow the culture and customs that have been formed since a long time ago. Culture can influence a person's decision to use contraceptive devices/drugs. Culture is a set of values, norms, and symbols that have meanings, shaping human behavior and are passed down from one generation to the next generation. Culture is a very important concept for understanding the acceptor behavior. The basic of the acceptor's desire is culture. The more acceptors who choose a type of contraceptive devices/drugs, the more it can influence people's behavior in determining the type of contraceptive devices/drugs used [4], [25], [26].

Institutionalized state is associated with the institutional support of the acceptor participation in family planning. The support referred to comes from the local government, midwives, family planning field officers, family planning cadres, community leaders and religious leaders, as well as neighbors and friends. Health workers such as midwives play an important role than Family Planning Field Officers in providing information about contraceptive methods to prospective acceptors [26]. Therefore, in addition to the support of Family Planning Field Officers, support from midwives is also very much needed to stimulate the community to use contraceptive devices/medicines according to their needs. In addition, health workers can be a reference for the community to use contraceptive devices/drugs [27] health workers who do not use contraceptive devices/drugs can become reinforcing factors that can affect the use of contraceptive devices/drugs in the community [25], [28].

Reference groups such as community and religious leaders also influence the acceptors' decision to use contraceptive devices/drugs [24]. Norms are believed by the reference group to be able to limit or stimulate acceptors' behavior and influence acceptors' opinions in using contraceptive devices/drugs. Their community or religious leaders who disagree with the Family Planning program can hinder the success of the program [29]. Therefore, promotion to community and religious leaders can be carried out so that they can provide positive support to the community to use contraceptive devices/drugs [24], [30].

The people around the acceptors also influence the decision to use contraceptive devices/ drugs. Acceptors interact with the people around them such as neighbors and friends where they can influence each other in shaping behavior, habits, attitudes, beliefs and values that are considered important [4]. The presence of social norms and values in society that cannot accept birth spacing program and considers it incompatible with the values believed by the public can become an obstacle for the Family Planning program. This can be due to cultural factors in the community that are still thick and difficult to accept reforms that they consider not in accordance with their values and social norms [29]. Communication and interactions patterns with friends and neighbors can influence acceptors' beliefs and attitudes about effective contraceptive devices/ drugs that are according to their needs so that in the end it will influence the acceptors' decisions to use contraceptive devices/drugs [25], [31].

Conclusion

There is a significant relationship between need and demand for contraceptive devices/drugs. Culture (objectified state and institutionalized state) is a variable that has the potential to become a moderating variable which can weaken the relationship between need and demand for contraceptive devices/drugs. Therefore, a cultural approach is needed so that acceptors can use contraceptive devices/drugs that really suit their needs.

Acknowledgment

The authors are grateful to Faculty of Public Health Universitas Airlangga, College of Pharmacy Palangka Raya.

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