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	misnaniarti misnaniarti	$\leftarrow \ll \rightarrow \cdots$
	To: Global Journal of Health Science	Fri 29/04/2016 09:13
	Dear Editor,	
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S T	rom: <mark>Global Journal</mark> of Health Science <gjhs@ccsenet.org> ent: 17 March 2016 10:09:38 o: misnaniarti misnaniarti ubject: Re: RE:_[GJHS]_Women's_membership_in_health_insurance_and_correlation_with_contraception_use_in</gjhs@ccsenet.org>	n_Indonesia

Re:

RE:_[GJHS]_Women's_membership_in_health_insurance_and_correlation_with_contraception_us e_in_Indonesia

misnaniarti@hotmail.com Fri 29/04/2016 09:13 To:Global Journal of Health Science <gjhs@ccsenet.org> Dear Editor,

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From: Global Journal of Health Science <gjhs@ccsenet.org> Sent: 17 March 2016 10:09:38 To: misnaniarti misnaniarti Subject: Re: RE:_[GJHS]_Women's_membership_in_health_insurance_and_correlation_with_contraception_use_in_Indonesia

Dear Misnaniarti,

Your paper has been assigned to the peer review process, which may take 2-3 weeks.

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Erica Editorial Assistant Global Journal of Health Science 2016-03-17 ------1120 Finch Avenue West Suite 701-309 Toronto, ON., M3J 3H7 Canada E-mail: gjhs@ccsenet.org

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====== At 2016-03-16, 19:05:02 you wrote: =======

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>From: Erica Grey [gjhs@ccsenet.org]
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Result of Review

Title: Women's membership in health insurance and correlation with contraception use in Indonesia

Author(s): Misnaniarti

Decision of Paper Selection

- () Accept submission, no revisions required
- (*) Accept submission, revisions required; please revise the paper according to comments
- () Revise and resubmit for review
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What should you do? (For accepted papers)

- ✓ Revise the paper according to the comments (if applicable)
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- ✓ Vol. 9, No. 2, February 2017 (e-Version First), if you meet above requirements within 2 weeks.
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- ✓ You may also ask to publish the paper later, if you need more time for revision or payment.

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Evaluation	Grade	
	Please fill a grade of 5, 4, 3, 2, 1(high to low)	
Overall evaluation on the paper	3	
Contribution to existing knowledge	3	
Organization and Readability	2	
Soundness of methodology	4	
Evidence supports conclusion	3	
Adequacy of literature review	3	

Comments from Internal Editor

Comments and Suggestions

(1) Please add/revise the author information in the revised version. The names of the authors should appear in the order of their contributions, centered between the side margins.

Example:

Anne Smith¹, Mary A. Meade^{1,2}, David Wolf II¹ & Charles Rockefeller Jr.²

¹School of Management, Northern Canada University, Toronto, Canada

²School of Economics, Peking University, Beijing, China

Correspondence: David Wolf II, School of Management, Northern Canada University, Toronto,

Ontario, M3A 2K7, Canada. Tel: 1-613-947-3592. E-mail: davidwolf@gc.ca

(2) Some typos and grammar errors need to be corrected, perhaps a native speaker should read the manuscript to fine tune it before publication.

(3) References should not be numbered, so citations in the text with numbers should be modified as with author's name and publication year. For example, (Smith, 1999)

(4) Revise the paper body and references list according to *Paper Submission Guide*: www.ccsenet.org/submission

(5) Revise table(s) into three-line table(s).

(6) Insert table(s) and figure(s) into the text.

(7) Add DOI persistent links to those references that have DOIs, please retrieve Digital Object Identifiers (DOIs) at <u>http://www.crossref.org/SimpleTextQuery/</u>

(8) Perhaps a bit more literature searching on the subject will provide more comparative data

More references should be found and they should cover the last 5 years.

Comments from External Reviewer A

 Evaluation (Please evaluate the manuscript by grade 1-5) 					
5=Excellent 4=Good	3=Avera	age 2=Below Average	1=Poor		
Items		Grade			
Contribution to existing knowledge		3			
Organization and Readability		1			
Soundness of methodology		4			
Evidence supports conclusion		4			
Adequacy of literature review		3			

Strengths

I haven't seen or heard of this data set before, and I think it allows you to study an important question of how health insurance can affect contraceptive use. Since the data set is fairly uncommon, I would recommend highlighting the benefits of using this source. The methodology seems reasonable for studying this correlation.

Weaknesses

This paper was very difficult to read through. I had a hard time understanding the details of the program you were studying, what hypothesis you were testing, and the importance of the results. The statistical analysis section could give a better idea of the equations you are using and you could extend this analysis to look at other subgroups or control variables.

✤ Suggestions to Author/s

The paper could greatly benefit from a more broad explanation of the Jampersal program. I also highly recommend getting a professional copyeditor to read through the paper and make changes, as there were several grammatical errors that made it difficult to read. Additionally, I think that the paper needs a more involved explanation of the importance of getting more women to use long-acting reversible contraceptives. You start with a discussion of MMR and IMR, but I do not see why having more women using LARCs could combat these high rates. You take a stance in the paper that this is a good thing, but do not explicitly state why. It would be helpful to give a brief calculation of the costs and benefits of the program to justify why the government should expand this program. Moreover, in Table 2 (sidenote: for Tables 1 and 2, the table titles are misspelled) it seems that the percentages of non-use, nonMKJP and MKJP are nearly identical for women that have insurance and those that don't. It makes it unclear why we should study or expect to see differences in contraception type in Table 3. Finally, in the first paragraph there is no introduction to the environment of contraceptive use

in Indonesia; you just immediately start talking about the program there. It would add to the paper if you started with some background of the current policies and take-up rates in that country and compared them to the U.S. I also think that the literature review could be put in the introduction as to not distract from the discussion in section 4.

Comments from External Reviewer B

 Evaluation (Please evaluate the manuscript by grade 1-5) 					
5=Excellent 4=Good 3=Aver	age 2=Below Average 1=Poor				
Items	Grade				
Contribution to existing knowledge	3				
Organization and Readability	2				
Soundness of methodology	4				
Evidence supports conclusion	4				
Adequacy of literature review	2				
Strengths The study identified and simplified a question that needed an answer for					

policy implications.

Weaknesses A lot of editorializing will have to be conducted to improve readability and avoid confusion for readers.

Suggestions to Author/s An editorial assistant can be called in for grammatical and format concerns

Women's membership in health insurance and correlation with contraception use in Indonesia

Misnaniarti¹

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ABSTRACT

Background and purpose

One the important effort in reducing the MM aternal MM ortality RR ate isare integrationed of FF amily PPlanning Services into Health Insurance policy. This It is giving affordability in health service financing through providing contraceptive accordance with established policy. The purpose of this study is to examine the-women's participation in health insurance and correlations to contraception use.

Material and methods

The study used the 2012 Indonesian Demographic and Health Survey data-set. Samples wereare women aged 15 to-49 years, of married status or living together (n=33,465). The dependent variable was contraception used for three categorizeds:-such as using Long Term Contraceptive, using non-Long Term Contraceptive, and not using any kind of contraception. Data analysis used Chi-square and multinomial logistic regression with complex sample. Results

10.6% of wWomen were found to have used a Long Term Contraception method-was 10.6%. Health insurance membership has ve correlations to contraceptive use (OR=1.241 and 0.964, p<0.05, CI 95%), with confounder variables of are age (p < 0.05, OR=1.428 and 0.648), education (p < 0.05, OR=1.402 and 1.064), work status (p < 0.05, p <OR=1.151 and 0.966), parity (p<0.05, OR=3.114 and 1.685), perception of ideal number of children (p<0.05, OR=2.057 and 1.682), husband's education (p<0.05, OR=0.166 and 0.920), husband's work (p<0.05, OR=1.247 and 2.469), and role of media (p<0.05, OR=1.255 and 1.084).

Conclusion and recommendations

This study was empirical evidence in Indonesia that health insurance factors have a significant correlation to Long Term Contraceptive use in women. It is rRecommended for government toean maintain and improve the policies that integrated Family Planning Services into National Health Insurance.

Keywords

Health insurance, <u>c</u>Contraception, <u>f</u>Family <u>p</u>Planning, Long Term Contraceptive, <u>m</u>Multinomial logistic regression

1. Introduction

National health <u>as a problem until nowadays</u> is still high according to population health indicators such as Maternal Mortality Rate (MMR) and Infant Mortality Rate (IMR), (359 per 100,000 live births and 32 per 1,000 live births <u>respectively</u>). According to data from <u>the</u> World Health Organization (WHO, 2013), these rates are still considered high compared to other ASEAN countries. The rates <u>areis</u> also still far from the target of 2015 Millennium Development Goals (MDGs).

The efforts to decrease of MMR and IMR are harder challenges to conquer, compared to other MDGss targets, and can_not be longer be_done by general intervention. Breakthroughs and improvements of cross-sector collaboration are required to chase the <u>reductionbackwardness</u> of MMR decrease to reach MDGs targets. One of the important efforts is to improve public access by giving affordability in health service financing. Government's policy isare Family Planning (FP) <u>S</u>services integrated <u>withte</u> Health Insurance policiesy through providing equipment and materials of contraception, andlso providing-receive treatment forof side effects and complications by *Badan Kependudukan dan Keluarga Berencana Nasional* (BKKBN) –National Population and Family Planning Board- asre appropriate with established policy.

In order to support the decrease of MMR and IMR to accelerate the achievement Goals 4 and 5 of MDGs, the Ministry of Health has very run several programs integrated to the FP service, such as Jaminan Persalinan (Jampersal) – a program that provides free antenatal, delivery, and postnatal services to pregnant women without health insurance and free childcare for the newborn baby – in 2011. The implementation concept was by demand side so that the participants who used the health insurance can both receive FP service both postpartum and after miscarriage. Through Jampersal, contraception such as the Long Term Contraceptive (LTC) Method, Intra Uterine Devices (IUD), implants and injectables are provided free of charge. Contraception and supporting facilities of FP services are provided by BKKBN (Ministry-of-Health, 2011, 2013)

In the beginning of 2014, *Jaminan Kesehatan Nasional* (JKN) –National Health Insurance,— was started to <u>be</u> implemented. This policy was also strengthened FP service where in JKN, it was stated clearly that one of the benefits of promotive and preventive services was the allocation of FP services includinged counselling, basic contraception, vasectomy and tubectomy (Ministry–of–Health, 2013).

People participation could be seen from the ability in accessing FP services. The Contraceptive Prevalence Rate (CPR) was one of FP program indicators₅ which was expected to increase 65% in 2015 (for the modern method). The modern method <u>hasdid</u> not shown improvement in the last ten years. The 2007 Indonesian Demographic and Health Survey (IDHS) showed CPR <u>was</u>_57.4% while in the 2012 IDHS, CPR was 57.9%. This could be suspected to contribute <u>toin</u> the high amount of MMR. Thus, <u>thereit wasis a needed</u> to study factors contributing <u>toin</u> contraception use (BKKBN, 2014a; Mujiati, 2013).

There was not much enough information related to the association of health insurance policy implementation with the selection of contraception used by women in Indonesia. Thus, this study <u>has</u> tried to know the information by using data from the 2012 IDHS. The purpose of this study was to analysis participation of health insurance and its association with the use of contraceptive methods of women in Indonesia. Information about factors contributing toin the use of contraception is very <u>much</u> needed for FP program administrators. The result of this study is expected to be useful as <u>an</u> information resource in running and integrating health insurance policy and FP services so that it can be expected to improve the FP program in the future.

2. Materials and methods

Research Subject

The research design was cross sectional using secondary data from the results of the 2012 IDHS. Research locations were in all provinces in Indonesia. The population wasare women of childbearing age, aged 15 to 49 years, whoich hads been successfully interviewed in the 2012 IDHS, a total 45,607 women. The sample was women of childbearing age, aged 15 to 49 years, currently married or living together, n=33,465 women (weighted), 32,706 women (unweighted). The sSample was chosen based on the criteria of variable recent marital status (V501), which are married or living together.

Contraception use behaviour is one example of health behaviour. Based on theory from Lawrence W. Green (Green & Kreuter, 1991) and information from other researches, it was known that factors influencing one's health behavior are predisposing factors, enabling factors, and reinforcing factors.

Measurements

<u>The dDependent variable was contraception used for three categorizeds: such as using LTC (Code 0), using</u> non-LTC (Code 1), and not using any kind of contraception (Code 2). <u>The Long Term Contraceptive consisted of</u> female sterilization, male sterilization, IUD and implants, while non-LTC consisted of pills, injectables, condoms, periodic abstinence, withdrawal (coitus interruptus), lactational amenorrhea (LAM), and other traditional and modern methods.

The primary independent variable is covered by health insurance. Since the purpose of this research is to compare women who have health insurance to women who does not, <u>the</u> code given in the multinomial regression analysis is 0 for women with health insurance, and 1 for women without health insurance (because it is risky to not use contraception).

Statistical Analysis

Processing and analysis of data were conducted using SPSS version 21, including univariate, bivariate (Chi-Square) and multivariate (multinomial logistic regression) analysis. Multinomial logistic regression analysis is a multivariate analysis in which the dependent variable is nominal polychotonom categorical scale variable (Dahlan, 2014; Hosmer & Lemeshow, 2000; Kleinbaum & Klein, 2010).

Data analysis conducted interaction tests to the complete model (Hierarchically Well Formulated Model). The variables have <u>a</u> significant associations without contraception use if p value < 0.05 (Hastono & Sabri, 2013). The selection was conducted step by step through <u>the</u> backward elimination system. After that, <u>the</u> confounding test was conducted by looking at the difference of Odds Ratio (OR) value for <u>the</u> main variable if the candidate's confounding variable was expelled. If the change of OR> 10% then the variable was considered as confounding.

3. Results

Based on this study it was foundknown that the majority of women used non-LTC (51.3%), while women usinge LTC was as much as 10.6%. The number of women who did not use any kind of contraception was still high, about 38.1% (see Table 1).

Based on further analysis, it was <u>foundknown</u> that the use of contraception <u>of theat</u> majority <u>of</u> respondents was injectables (31.9%), pills (13.6%), -IUD<u>s</u> (3.9%), implant<u>s</u> (3.3%) and women sterilization (3.2%).

From <u>B</u>bivariate analysis <u>showedknown</u> that all <u>of</u> independent variables had<u>we</u> p<0.05 which means if it <u>was</u> analyzed on each variables, there would be an correlation with contraception use of women (aged 15-49 with status of married or living together), see Table 2.

Based on <u>T</u>table 2 it was <u>shownknown</u> that o<u>fn</u> women without health insurance, <u>there was 9.3%</u> who-used LTC, while o<u>fn</u> women with health insurance, <u>there was 12.8%</u> who-used LTC. From this data <u>it is shownknown</u> that p value $= 0_{\tau_2}0001$ (p<0.05) so it can be concluded that there is an association between <u>those</u> covered by health insurance <u>andwith</u> contraceptive used.

It is <u>shownknown</u> that <u>in the</u> higher age <u>group are</u> more likely <u>to be</u> using LTC₇ (1.5% for-in women aged 15 to 19 years-<u>of 1.5%, and 14.9% while on for women</u> aged more than 35 years-<u>of 14.9%</u>. As well<u>as in women</u> highly educated women prefer using LTC (16.1%) compared to the less educated (8.3%). Women with the richest status were more likely using LTC (16.0%) -than women with the poorerst status (7.9%)-.

Next on the final model (Table 3); showedknown that the variable of 'covered by health insurance' hads a significant correlation with the use of contraceptive method; bboth on the group of women using LTC and non-LTC (p=0.0001, OR=1.241 and 0.964), controlled by variables: age (OR=1.428 and 0.648), education (OR=1.402 and 1.064), job (OR=1.151 and 0.966), number of children born (OR=3.114 and 1.685), perception about ideal number of children (OR=2.057 and 1.682), husband's education (OR=0.166 and 0.920), husband's job (OR=1.247 and 2.469), and role of media OR=1.255 and 1.084).

<u>The c</u>Contribution of <u>the 'c</u>overed by health insurance' variable to the use of contraception on women aged 15-49 was 7.0% (rated by using *pseudo-R* seen from Nagelkerke). <u>This</u> means that health insurance covered can explain its association with the use of contraception as much as 7.0%.

From this model, it can be interpreted that on-women havinge any health insurance were more likely to use LTC (1.241 times more than women without health insurance). Also on-women who hadve any health insurance were 0.964 times more likely to use the non LTC method 0.964 times more than women without health insurance, after controlled by variables of age, education, parity, perception about ideal number of children, job status, husband's education, husband's job; and the role of media.

4. Discussion

In this research, a trend is seen that older women <u>are</u> more likely to use LTC. This is consistent with further analysis of the IDHS data (BKKBN, 2014b) that LTC (except implants) was most used <u>byon</u> women aged 45 to 48 years, while implants were most used <u>byon</u> women aged 35 to 39 years (4.1%). It is <u>shownknown</u> that there is an association of health insurance covered with contraception used<u>d</u>. This is consistent with research at Cirebon Regency (Chotimah, 2011) that health insurance covered is significantly associated with FP participation.

From the number of parity, it can be seen that on women havinge three3 or more children, moremajority used non-LTC than LTC (49.7% to 16.2% respectively). It-This needs to get attention because on that condition it cshould be suggested to use $LTC_{r_{2}}$ cContrary to research in Eastern Cape, South Africa (Stephenson, Beke, & Tshibangu, 2008), that women with five or more children are prefer LTC overmore than injectables. But it was still better than in the rural area of North Malawi (Dasgupta, Zaba, & Crampin, 2015), where there are still many women with parity five or more children not using contraception at all (41.6%). At least women in this group can use the IUD method which has potential to improve women's health and has the ability toin spaceing and limiting birth towith costs that are affordable (Townsend & Jacobstein, 2007).

At Ile Ife hospital, Nigeria, with grand multipara incidents (havinge many children) of 9.04% it is only about 77% of women who wants to use contraception in the future. This data explains that there are still many women who need better contraception for better life quality starting from the first pregnancy until the time before grand multipara. This can be solved by conducting education about permanent methods of contraception. Education becomes the catalyst forof positive change, and cuts off the chain of poverty (Adebanjo, Adeyemi, Loto, Ijadunola, & Asa, 2011).

On unemployed women-group, a majority has used non-LTC (53.4%), and there was a trend that employed woman prefer to use LTC (11.5%) to unemployed (9.3%). It was different based on all methods, based on the research in Bangladesh (Sultana, Nahar, Marions, & Oliveras, 2013) that <u>of</u> women usinged contraception (all methods) the majority are not workers (62%). So were <u>I</u>in Iran (Motlaq, Eslami, Yazdanpanah, & Nakhaee, 2013), the use of all methods of contraception <u>are used</u> more <u>byon</u> women <u>who</u> work at home (81.8%).

Nationally from T this research has shown, it is known that the use of LTC the likelihood of LTC use to be higher withon women in urban than rural areas $(11_{7.6}\%$ to $9_{..7}6\%$ respectively). wWhile non-LTC was higher in rural than urban (52% to 50.5% respectively). This It can be compared with research in Iran (Motlaq et al., 2013), that contraception use, if assessed forseen from all methods, tends to be higher in rural (84.5%) than urban (82.1%) areas.

Women with <u>a</u> highest wealth index use LTC the most (16%) compared to other wealth group<u>s</u>, compared to women in (middle group (9.6%), poor (group 9.6%). Similiarley with research in the Eastern Cape <u>where</u>that more wealthier women prefer to use permanent contraception <u>thanto</u> women with poorer status (Stephenson et al., 2008).

Similiarly with this research, showsknown that the socio-demographic factors which significantly associateding with contraception use are age, education, wealth index, parity, ethnicity, age at first pregnancy, source of information, and covered by health insurance as health service factors which take effect (Chotimah, 2011; Ivanty, 2014; Paskaria, 2012). Based on one study (Ivanty, 2014), many of the sources accepted by participants related to family planning methods was by family or peer discussion (53.8%), but it was only 25% from health workers, while mass media (pamphlets and posters) was only 8.6%.

Factors known to have <u>an</u> association with the use of contraception <u>such as</u>-were: age, area of residence, education, parity, <u>and</u> wealth index (BKKBN, 2014b), <u>w</u>While based on the study in Uganda, it is known that the key factors associated with the use of modern contraception of early married women aged 15 to 24 were area of residence and the decision of having <u>a</u> child; meanwhile on women aged 25 to 34, significant factors associated with the use of contraception are level of education, household spending and the decision of having child (J. Asiimwe, Ndugga, Mushomi, & Manyenye Ntozi, 2014; J. B. Asiimwe, Ndugga, & Mushomi, 2013). Therefore, women's

health improvement strategiesy must be comprehensively based on its-health determinants, which specifically addressed to the socio-economical and cultural obstacles (AbouZahr, 2014).

Implication of Policy based on the Results of Research

<u>SinceWhen</u> this survey was conducted (the 2012 IDHS), health financing policy covering contraception services which has been implemented including *Jampersal*, and several other health insurance_{S_x} although limited.

<u>The</u> Jampersal policy gave limited FP service which was more directed to service for postpartum and miscarriage. Furthermore it <u>was</u>-remained to be continued and developed in JKN at 2014, which showed programme improvement. Participants can utilize the FP service a<u>st-all</u> the first of health provider and advanced provider (hospital) which have agreement with JKN.

<u>The</u> Government's attempt has been appropriate, where participants of *Jampersal* wereas all of the targets who had not health insurance. <u>A IL</u>imitation in its implementation was <u>that</u> the service provided was only postpartum (its means women givinge birth until 42 days postpartum). The purpose was to push participants to use postpartum FP services.

Many challenges in the implementation becaomes tasks which hads to be solved by policy makers and programme planners to strengthen the policy system and make the service accessible by everyone. Lack of funds became the biggest obstacle into reaching the health goal (Singh, Darroch, Ashford, & Vlassoff, 2009). Research results in North East Province, Kenya and Northern Uganda stated that the higher proportion was of women using modern contraception if the method was available or existed around the service area (Wang, Wang, Pullum, & Ametapi, 2012).

By the information from this research, government can compile interventions addressed to improve the number of women's participation <u>rate</u> in family planning by compiling program<u>mes</u> related to those factors, such as socializing FP services through medias <u>of</u> which many <u>of them</u> are accessed by women nowadays. It can be mass media like newspapers and women's magazines or electronic media like television and <u>the</u> internet by utilizing social networks, for example <u>*Ffacebook*</u>.

The socializations can be conducted more aggressively to the age group with slight use of contraception like women in the group aged 35 and older. There are still many women who <u>havewas</u> not graduated from elementary school <u>who</u> does not use contraception, 684 persons ($56_{-5}6\%$). Thus, intervention can be composed through cross-program<u>mes</u> by improving mothers' education through informal education program<u>mes</u>- likes "*Kejar Paket A*" programme or others.

The reductione of fertility and population growth becomes an important part in the economic developing countriesy nowadays. Evidence in Asia and Africa suggest that family planning access can affect fertility. Family planning programmes can reduce fertility <u>aslike</u> in Bangladesh dand Ghana. The reductione of fertility is associateds with improvements in women's health, income, and work participation. Parents can invest more funds and time to each health, nutrition, and education when they have less children (Canning & Schultz, 2012). Family planning promotion in countries with high birth rates potentially reduce poverty and hunger, and prevent 32% of all maternal mortality and almost 10% of infant mortality (Cleland et al., 2006).

5. Conclussion and recommendations

The results of this research becomes empirical evidence that nationally, the 'having health insurance' variable has a significant association within the use of contraception methods by momen aged 15 to 49, both in LTC and non-LTC methods (p=0.0001, OR=1.241 and 0.964), controlled by variables of age, education, job, number of children gave birth (parity), perception about ideal number of children, husband's education, husband's job; and role of media. Thus, the policy of integrated FP service in health insurance programmes has been appropriately run by the government, by providing tools/ methods of contraception for free of charge.

Based on this study, <u>it is</u> recommended for government <u>tocan</u> maintain and improve this policy, especially in <u>the</u>-LTC method so that the number of women²s participationg in FP is expected to improve every year. <u>The</u> Ministry of <u>Hhealth</u>, BKKBN₇ and <u>the</u> Public Health Office, together with the<u>ir</u> staff₄s must improve the cooperation and socialization so FP and reproduction health programs can be implemented continuously. Supports from health Formatted: Font: Not Italic

workers can be a booster so that women would use appropriate contraception for their needs. By socialization, it is expected to improve public awareness in FP and finally can reduce the MMR and IMR.

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Re: [GJHS] Result of Review-58193

misnaniarti@hotmail.com Mon 23/05/2016 05:43 To:Joseph Walker <gjhs3@ccsenet.org>

1 attachments (76 KB)Proof of payment - PayPal_Misnaniarti.pdf;

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Thank you for your submission to the journal. We have reached a decision regarding your submission. Please find the result attached.

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