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Influence Hormonal Contraception Against Incident Hypertension in Acceptor KB At PMB Miftahul Jannah Jambi

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Abstract

Hypertension is an increase in systolic blood pressure of more than 140 mmHg and diastolic blood pressure pressure of more than 90 mmHg in two measurements with an interval's interval of five minutes state.One of the causes of hypertension in Indonesia is contraception users, namely 34.1%, especially in the use of hormonal birth control. The aim of this study was to determine the effect of hormones contraception on the incidence of hypertension in family planning acceptors at PMB Miftahul Jannah Jambi. The research method used was analytics with a retrospective approach. The The population in this study were all family planning acceptors who experienced hypertension in 2021 with a total of 45 respondents. The sampling techniques with the total sampling techniques is 45 people. Data analysis used the chi-square test. The results showed that there was no effect of hormones contraception on the incidence of hypertension in family planning acceptors at PMB Vivi Miftahul Jannah Jambi (p=0.872). The conclusion of this study is that there is no effect of hormones contraception on the incidence of hypertension in family planning acceptors at PMB Miftahul Jannah Jambi. This research can be used as a prediction through early screening of risk factors for hypertension.

Keywords: *Hormonal Contraception, Hypertension*

Abstract

Hypertension is enhancement pressure blood systolic more than 140 mmHg and pressure blood diastolic more from 90 mmHg on two measurements with hose five minutes in circumstances calm. cause of hypertension in Indonesia is one of them user contraception that is as big as34.1 % esp. in use of birth control hormones. Purpose did it study This is for now Influence hormonal contraception against incident hypertension in birth control acceptors in PMB Miftahul Jannah Jambi. Method study Which used is analytic with approach *retrospective.* Population in research This is all family planning acceptors who experience it hypertension on Year 2021 as much 45 respondents. Technique taking sample with technique totalsampling that is 45 people. Analysis data use test *chi-square*. Results study obtained No There is influence hormonal contraception against incident hypertension in family planning acceptors at PMB Miftahul Jannah Jambi (p=0.872). Conclusion study This is No There is influence hormonal contraception against incident hypertension in family planning acceptors at PMB Miftahul Jannah Jambi. With exists study This can used as predictions through screening early from factor risk happen hypertension.

Say Key: Contraception Hormonal, Hypertension

INTRODUCTION

Hypertension is pressure blood systolic ≥140 mmHg & or pressure blood diastolic ≥90 mmHg in individuals (PDSK Indonesia; 2015.). Hypertension is factor risk major on disease cardiovascular and can cause mortality (Indonesian Ministry of Health, 2014).

Pressure blood classified said normal If pressure blood <120/80 mmHg, prehypertension 120–139/80–89 mmHg, hypertension stage 1 if 140–159 mmHg and hypertension stages 2 If pressure

his blood ≥160 /100 mmHg (National Institutes of Health, 2003).

Complications hypertension cause around 9.4 million deaths worldwide the year. Hypertension cause at least 45% mortality Because disease heart disease and 51% death Because disease stroke. On data WHO, death in Indonesia as big as 73% caused by disease No infectious, where disease cardiovascular occupy order First, that is 35%.3 (WHO, 2018).

Contraception inject is contraception hormonal type injection Which differentiated become two type that is DMPA (Depot Medroxy Progesterone Acetate) And combination. (Anwar, 2011).

Contraception pill is one of method contraception Which most often prescribed and used by millions woman in many countries. That matter because pill combination own effectiveness Which Good, that is 99.5-99.9% And 97% on use Which perfect (Nafisah, et al.,2014).

Tool contraception hormonal Which often used by women in Indonesia that is contraception injections (38.3%) and contraception pill (27.7%) (Tendean et al., 2017).

Based on data riskesdas 2018 amount user kb with hypertension amounting to 34.1% especially in use birth control hormone (Debora s, 2019). Contraception hormonal inject And orally For usage period Long can give effect aside, one of them form hypertension (Elsalam , 2022). This matter happen Because exists no balance hormone estrogen in body woman which can increase retention electrolyte in kidney so that result hypertension (Debora s, 2019).

Data obtained from the central agency statistics province Sumatra south amount acceptor kb based on type toolcontraception in 2021, that is pill as much 284 283, inject as much 596 362 and implants as many as 341 378. The data obtained from body center statistics (CPM) subdistrict Jambi City amount acceptor based on type tool contraception on 2019 that is pill as many as 25291, injection as much 53911 And implants as much 35843. 2020 KB pills as many as 26507, inject as much 54553, implants as much 36125. And on year 2021 kb pill as much 25035, injectable as many as 48624 and implants as much 36377.

data obtained from PMB Miftahul Jannah Jambi year 2021total amount birth control pill acceptor 50 acceptor, Injectable 115 acceptor and implant 10 acceptors, experience increase in year 2022 that is acceptor kb pill 65 acceptor
, inject 120 acceptors and decrease in kb implants 5 acceptor. Whereas amount whole acceptor kb hormonal Which experience hypertension on year 2021 amounting to 30 acceptors and in 2022 amounting to 45 acceptors.

Based on phenomenon above, author conclude for do study Which title " Influence contraception hormonal against incident hypertension inkb acceptor at PMB Miftahul Jannah Jambi"

METHOD IMPLEMENTATION

Study This nature analytic with approach retrospective Which aim for now influence contraception hormonal against incident hypertension inkb acceptor at PMB Miftahul Jannah Jambi. Population on study This is all KB acceptor who experiences hypertension in PMB Miftahul Jannah Jambi in 2022 there will be 45 acceptors use technique total sampling. Research instrument use data record medical Which obtained at PMB Miftahul Jannah Jambi.

RESULTS

Results analysis with objective study that is For now influence contraception hormonal to incident hypertension on acceptor kb in PMB Miftahul Jannah Jambi with resultsas following:

Table 1. Influence hormonal contraception to incident hypertension in acceptor KB

Contraception hormonal	Hypertension				p-Value
	prehypertension		Hypertension satge 1		
	F	%	F	%	
No use	4	8.9	613.3		0.872
Using	15	33.4	2044.4		
Total	19	42.3	2657.7		

Based on table on obtained results that from 45 respondents with user contraception hormonal part big Which experience hypertension as much 35 respondents (77.8%) And Which No use contraception hormonal Which experience hypertension amounting to 10 respondents (22.2%). Results test statistics with use *Pearson Chi-Square* obtained mark *p-value* 0.872 (p >0.05) with thereby can concluded that No there is influence contraception hormonal against incident hypertension in Family planning acceptor at PMB Miftahul Jannah Jambi.

DISCUSSION

Influence contraception hormonal to incident hypertension on acceptor KB

Results study obtained that from 45 respondents with user contraception hormonal Which experience hypertension part big use contraception pill as big as 11 respondents (32.4%) And Which use contraception inject by 18 respondents (51.5%) and those who use contraception implants as big as 6 respondents (17.6%) with whole Which use hormonal contraception amounting to 35 respondents (77.8%) And Which No use as big as 10 respondents (22.2%).

By statistics obtained that no there is influence contraception hormonal to incident hypertension in acceptors KB in PMB Miftahul Jannah Jambi with mark *p* 0.872. Matter This in line with study by wiwitSukmawati (2018) Where no there is significant relationship between use contraception hormonal with incident hypertension in women age fertile. Which No use contraception hormonal also can experience hypertension because contraception hormonal No in a way direct cause hypertension and there is factors or complications other Which Possible influence it like age, history hypertension family, obesity, patterns Eat, not enough activity physique, stressed and social economy.

Matter This different with study Which done by Gaby G. Langi et al (2012) with title analysis connection use pill KB with incident hypertension on woman age fertile. Based on with results test statistics use Chi Square analysis of 90 respondents with level significant 5% obtained p value 0,000 so that Ho rejected. Got it results OR 17.2 so can said that woman age fertile user birth control pills are 17.2 times risky caught hypertension (Gaby, 2012).

Someone who comes from family with history hypertension, have risk Which bigger for suffer hypertension compared with family without history hypertension. If second parent hypertension, then number incident hypertension on his descendants increases from 4 to 15 times compared when second parent is normotensive. Bila second parent suffer hypertension essential, so 44.8% of his children will suffer hypertension. If only wrong One parent hypertension so 12.8% his descendants will experience hypertension.

known for a long time that incident hypertension is associated with obesity. However, mechanism Which Certain Still Not yet clear. Selective insulin

resistance is something circumstances if someone is having trouble ability insulin in metabolism glucose, however effect physiological other from insulin still happen like sodium retention, change structure and function vascular, transport ion, And Activation system nerve sympathetic, so it will resulthypertension.

Consumption salt Which tall connected with happen hypertension essential, seen from study epidemiology to pressure people's blood who consume the food is high in salt.9 However so because most from they No suffer hypertension, Certain There is difference sensitivity to salt.17 A response pressure blood which sensitive to salt/sodium defined as increase average pressure blood arteries as big as = 5 mmHg after consumption tall salt during 2 Sunday. A number of studies has proven that subtraction consumption salt can lower pressure blood systolic average 3-5 mmHg, with effect Which bigger on person old Which suffer hypertension heavy.

Coarctation of the aorta is disease cardiovascular Which always cause hypertension, good period baby nor on age children and adolescents.9,29 Inside literaturementioned as much 2% coarctation aortaas reason hypertension secondary.

Pheochromocytoma is neoplasm origin from cell chromaffin Which located in part medulla gland adrenals. Around 0.5 % from reason hypertension secondary in children originate from Pheochromocytoma. Seles chromaffin is place for synthesize, keep and secrete hormone catecholamines, that is something neurotransmitters alpha adrenergic that holds role in pathogenesis hypertension. Disorders endocrine other Which can cause hypertension is Cushing's syndrome, syndrome adrenogenital, hyperaldosteronism essential, And adrenal hyperplasia congenital.

Researcher assume exists difference results study This with research that other Which has done can happen consequence limitations amount sample that is only 45 respondents And Also limitations researcher Where only research 1 variable just Where Still there is Lots factors cause happen hypertension like obesity, pattern eat, not enough activity physique, stressed, social economy and so on.

CONCLUSION

Based on results and Discussion study can concluded that No there is influence contraception hormonal to incident hypertension in acceptors KB in PMB Miftahul Jannah Jambi.

SUGGESTION

Expected study This apart made study This can used as predictions through screening early from factor risk happen neonatal asphyxia so that mortality baby decrease.

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