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# CONTRACEPTIVE BEHAVIOUR OF COUPLES AND ITS CORRELATES IN A RURAL COMMUNITY

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#### **ABSTRACT**

Context: Population explosion in developing countries is a major problem which neutralizes all the gains and developments achieved in the country. One of the main reasons for population growth is the low prevalence rate of contraceptive use. Objectives: 1) To investigate contraceptive behavior of couples. 2) To identify patterns and factors associated with awareness and practice of contraception. Methods: A cross-sectional study under STS scheme of ICMR was conducted among 104 married women aged 18-49 years in a rural community attached with a teaching institution. Study variables included socio- demographic characteristics, reproductive health characteristics, interpersonal communication with spouse and care by spouse. Results: Contraceptive prevalence rate was found to be 59.6% against contraceptive awareness of 79.8%. About 54.0% women were aware of female sterilization but only 3.2 % practiced it. Illiterate and less educated women irrespective of their ages were found more likely of having no contraceptive awareness and not using contraceptives. Lack of knowledge and no faith in family planning came out to be the most common reasons of not using any contraceptive. Conclusions and Suggestions: Efforts should be made for improving literacy of women for increasing awareness and use of contraceptives in order to reduce unwanted births.

**KEYWORDS:** Births aversion; Contraceptive awareness; Contraceptive practice; Unmet need of contraception; Unwanted Births.

## INTRODUCTION

Reproductive health of women has always been a matter of great concern for all the countries. Population explosions in developing countries are the major problem which neutralizes all the gains and developments achieved in the country. One of the main reasons for population growth is the low prevalence rate of contraceptive use.

According to NFHS-3 Survey, knowledge about various temporary and permanent methods among men and women ranges from 45% to 97%: 98 percent of women and 99 percent of men age 15-49 knew one or more methods of contraception. The contraceptive prevalence rate in India was reported only 56 %. Percentage of wanted births increased from 79 percent in 2005-06 to 91 percent as reported in NFHS-4 survey. According to the NFHS-4, the total unmet need for rural India was reported 13.2%

A study conducted in Haryana reported 93.5% agreement amongst husbands and wives regarding unmet need of family planning and this study reported predominant role

of husbands in deciding use of contraception.[3] Involvement of men in reproductive health is often ignored by health programs in developing countries in spite of the fact that men are less involved in family planning. [4,5] The gap between women's reproductive intentions and their contraceptive behavior is termed as the unmet need for contraception. Unmet need for family planning is an important indicator for assessing the potential demand for family planning services. Meeting this unmet need for contraception is one of the top priorities for family planning programs since launch of National Family Welfare Programme in 1952. The unmet need for contraception may be mainly attributed to lack of information, negative attitude, fear of adverse effects and social influences. A number of studies are available on unmet need of contraception. [6-13] It is always a matter of public health concerns to reduce unmet need of contraception in order to avert unwanted births. For this purpose it is important to study contraceptive behavior of couples.

Therefore, present study was conducted with the following objectives:

- 1) To investigate contraceptive behavior of couples.
- 2) To identify patterns and factors associated with awareness and practice of contraception.

# MATERIAL AND METHODS

The present report is an outcome of the project under Short Term Studentship (STS) Scheme of Indian Council of Medical Research (ICMR) titled "Involvement of Male Partners in Reproductive Health Care of Women in a Rural Community" conducted during 01.06.2019 to 31.07.2019.

A cross-sectional study design was adopted in a rural community attached with Rural Health Training Centre under the Department of Community Medicine of the institution. A two stage systematic sampling technique was used to select a sample of married women aged 18-49 years having at least one child. A sample of households as primary stage units (PSU) within selected area was selected systematically. Within each selected household selected as PSU, women willing to participate in the study were selected as respondents. The sample size of the main study was calculated on the basis of anticipated 54% male partner involvement reproductive decision as key outcome parameter, assuming 95% confidence coefficient and 10% precision, the optimum sample size came out to be 96. Findings of male partner involvement in reproductive decision have been submitted in a separate article based on this STS project.

## **Data Collection Tools**

House-to-house survey was conducted for data collection. Women in the reproductive age group with at least one child ever borne were interviewed in privacy to collect the desired information at the respondent's home at flexible time points. Predesigned and pretested semi-structured interview schedule designed after reviewing literature were used for data collection. Interview schedules were modified based on experiences of pilot survey.

# Study Variables

Interview schedule was used in the study. Study variables included socio- demographic characteristics (age, religion, level of education, occupation, age at first marriage, age at first delivery, number of live children, years living with husband); reproductive characteristics, behavior of herself and perceptions of spouses in terms of past and future fertility desires, timing to have the first child, birth interval desired by each partner, intention of last pregnancy fertility preferences, contraceptive choices, attitude towards family planning, gender preference); participation of male partners in reproductive health care seeking, is attached.

#### **Statistical Analysis**

Data analysis was carried out by usiung Normal test of proportions for testing the significance of differences in proportions in two different sub groups. Chi square  $(\chi^2)$  test was used for testing the significance of associations. Binary logistic regression analysis was used for identifying done to investigate of predictors factors associated with contraceptive awareness and practice. Odds ratios along with 95% Confidence interval were calculated for potential risk factors of non awareness and not practicing contraceptives. Data analysis was carried out by using SPSS -20 Software.

#### Ethical issues

Prior approval by Institutional Ethics Committee (IEC) of Maharishi Markandeshwar (Deemed to be University), Mullana, Ambala was granted vide approval letter no "Project No-1481 dated 20.04.2019". ICMR Ethical Guidelines for Biomedical Research on Human Participants (2017) were followed. [14] Informed consents were taken and confidentiality of responses was ensured maintaining privacy of respondents.

#### **OBSERVATIONS AND RESULTS**

A total of 104 women in reproductive age group having delivered at least one child were selected in the studied area and interviewed for their reproductive health characteristics. Distribution of women by background characteristics is presented in Table-1. Out of all 104 women studied, 73(70.2%) women were having 5 or more family size. Half of them were of low socioeconomic status (SES) and about 80% of them were Hindus. Exactly 52(50.0%) were from joint families. Majority of them (43.3%) were belonging to age group 36-49 years with mean age of  $35.56 \pm 1$  0.33 years. They represented almost all socio-economic classes and educational categories. Out of all respondents, majority 87(83.7%) were housewives.

Table -2 presents contraceptive behavior of women. About 80% women were aware of at least one contraceptive and awareness of contraceptive was mostly from health staff followed by mass media. Out of all women, 62(59.6%) women ever used contraceptive. Among all women aware of contraceptives, contraceptive was used by 74.7% women. There were 17(27.4%) women who reported initiation contraceptive use when no child was born. About 77% of their spouses started using contraceptives before birth of first child. IUCD was the most common method of contraception used by 15(39.5%) contraceptive user women. Safe methods were being adopted by 14(36.8%) couples. Among 42 couples not using any contraceptives, lack of knowledge (28.6%) came out to be the most common reasons of not using any contraceptive followed by no faith in family planning (7.1%). Table-3 presents gap between awareness and practice of different methods of contraception. Maximum awareness was of spacing methods. There were 64(61.5%) women aware of condoms, whereas 34(32.7%) women were aware of

IUCD (Cu-T). Awareness of permanent methods: tubectomy and vasectomy were found among 36(34.6%) and 25(24.0%) respectively. Use of condoms as spacing method was the most common method of contraception reported by 28(26.9%) women. Overall gap between awareness and practice of contraception comes out to be 20.2%. The maximum gap of 31.7% was reported for female sterilization. Comparison of means ages of wife and husband by contraceptive awareness, contraceptive practice, are presented in Tables-4. Ages of women or men who were aware and not aware of contraceptive were not found significant. Similarly there was no significant difference between their mean ages for users and non user categories.

Factors affecting contraceptive awareness were studied on the basis of bivariate analysis as presented in Table-5.

Education of Wife (P<0001), education of husband (p=0.01), socio-economic status (P=0.028), age of husband (p=0.046), age at marriage (P=0.013), having

male child (p=0.044) came out to be significant correlates of contraceptive awareness. Factors significantly associated for contraceptive practice included education of wife (P<0.001), education of husband (P=0.004), socio-economic status (P=0.046), having male child (P=0.037) as presented in Table-6.

Based on logistic regression of factors not aware of contraceptives only educational status of wife came out to be significant correlate of awareness of contraceptive and other factors lost their significance. Illiterate and only primary educated women were found at significantly higher risk of having no awareness of contraceptive (P=0.008) as shown in Table-7. Similarly, illiterate and only primary educated women were found at significantly higher risk of not using contraceptive (P=0.009) as shown in Table-8. Other factors significantly associated with outcome in bivariate analysis lost their respective significance.

Table 1: Distribution of Women by Background Characteristics.

Background Characteristic	No	%
Family Size		
3-4	31	29.8
5 or more	73	70.2
Total	104	100.0
Socio-economic Status (SES)		
Lower/Upper Lower	52	50.0
Lower Middle/Upper Middle	38	36.5
Upper Class	14	13.5
Total	104	100.0
Religion		
Hindu	83	79.8
Muslim	14	13.5
Sikh	5	4.8
Others	2	1.9
Total	104	100.0
Caste		
SC	20	19.2
ST	1	1.0
OBC	26	25.0
Others	57	54.8
Total	104	100.0
Family Type		
Joint	52	50.0
Nuclear	50	48.1
Extended	2	1.9
Total	104	100.0
No of Children		
1-2	65	62.5
3 or More	39	37.5

Table 2: Contraceptive Behaviour of Women.

Contraceptive Behaviour	No	%
Awareness of contraceptives		
Yes	83	79.8
No	21	20.2
Source of Knowledge (N= 83)		
Doctors	30	36.1
Health staff	41	49.4
Friends / Relatives	23	27.7
Mass media	30	36.1
Others	9	10.8
Ever used /currently using any contraceptive	62	59.6
Children at the time of starting contraceptive by women (N=62)		
No response	18	29.0
None	17	27.4
1	25	40.3
2 or more	2	3.2
Total	62	100.0
Children at the time of starting contraceptive by spouse		
None	80	76.9
1	20	19.2
2	4	3.8
Reasons of not using Contraceptives (N=42)		
Want more children	2	4.8
Lack of knowledge	12	28.6
Ill health of either partner	2	4.8
No faith in Family Planning	3	7.14
Spouse does not like	2	4.8
Mother-in-law does not like	1	2.4
Against religion	1	2.4
Other family member does not like	1	2.4
Loss of pleasure	1	2.4
Not good for health	1	2.4
Worried of side effects	1	2.4
Not available easily	1	2.4
Breast feeding	1	2.4
Health related reasons	1	2.4
Others	2	4.8

Table 3: Gap between Contraceptive Awareness and Practice.

Knowledge of wife regarding	Contraceptive	Contraceptive	Gap between
contraceptive methods	Awareness	Practice	awareness and practice
Female sterilization/ Tubectomy	36(34.6)	3(2.9)	33(31.7)
Male sterilization /Vasectomy	25(24.0)	1(1.0)	24(23.1)
IUCD (Cu-T)	34(32.7)	3(2.9)	31(29.8)
Oral Pills	33(31.7)	7(6.7)	26(25.0)
Injections	11(10.6)	1(1.0)	10(9.6)
Condom	64(61.5)	28(26.9)	36(34.6)
Foam-Jelly, cream, diaphragm	6(5.8)	-	6(5.8)
Safe Period/Withdrawal	11(10.6)	5(4.8)	6(5.7)
No response /Do not know	6(5.8)	4(3.8)	2 (2.0)
Overall	83(79.8)	62(59.6)	21(20.2)

Figures in ( ) indicate percentages

Table 4: Comparison of Means Ages of Wife and Husband by Contraceptive Awareness.

A /D	N Age		95% Confidence	D Wales		
Awareness/Practice	IN	Mean	Std. Deviation	Lower Bound	Upper Bound	P-Value
<b>Awareness of Contraceptive</b>						
Wife Aware	83	35.60	10.357	33.34	37.86	
Wife Not Aware	21	35.38	10.500	30.60	40.16	
Total	104	35.56	10.335	33.55	37.57	P=0.93
Husband Aware	83	39.55	10.807	37.19	41.91	
Husband Not Aware	21	38.86	11.029	33.84	43.88	
Total	104	39.41	10.801	37.31	41.51	P=0.79
<b>Contraceptive Practice</b>						
Wife Users	62			32.16	36.58	
Wife Non users	42	37.31	12.276	33.48	41.14	
Total	104	35.56	10.335	33.55	37.57	P=0.16
Husband Users	62	38.13	8.875	35.88	40.38	
Husband Non users	42	41.31	13.028	37.25	45.37	
Total	104	39.41	10.801	37.31	41.51	P=0.14

Table 5: Bivariate Analysis: Factors Affecting Contraceptive Awareness

Factors	Category	Contraceptiv	Total	
	Category	Yes	No	
Number of Children				
	3 or more	57(68.7)	12(57.1)	69(66.3)
	Less than 3	26(31.3)	9(42.9)	35(33.7)
		$\chi^2 = 0.998$	P= 0.318	
Education of Wife				
	Others	60(72.3)	6(28.6)	66(63.5)
	Illiterate/Primary	23(27.7)	15(71.4)	38(36.5)
		$\chi^2 = 13.814$	P< 0.001**	
Education of Husband				
	Others	74(89.2)	14(66.7)	88(84.6)
	Illiterate/Primary	9(10.8)	7(33.3)	16(15.4)
		$\chi^2 = 6.512$	P=0.01*	
Socio-economic Status				
	Middle/High	46(55.4)	6(28.6)	52(50.0)
	Low	37(44.6)	15(71.4)	52(50.0)
		$\chi^2 = 4.833$	P=0.028*	
Age of Wife				
	Above 21	82(98.8)	20(95.2)	102(98.1)
	Upto 21	1(1.2)	1(4.8)	2(1.9)
		$\chi^2 = 1.124$	P=0.289	
Age of Husband				
	Above 21	83(100)	20(95.2)	103(99.0)
	Upto 21	0(0)	1(4.8)	1(1.0)
		$\chi^2 = 3.991$	P=0.046*	
Age at Marriage				
	Above 21	26(31.3)	1(4.8)	27(26.0)
	Upto 21	57(68.7)	20(95.2)	77(74.0)
		$\chi^2 = 6.152$	P=0.013*	
Desire for son				
	Yes	66(79.5)	15(71.4)	81(77.9)
	No	17(20.5)	6(28.6)	23(22.1)
		$\chi^2 = 0.637$	P=0.425	,
Having Male Child				
	Yes	43(51.8)	16(76.2)	59(56.7)
	No	40(48.2)	5(23.8)	45(43.3)
		$\chi^2 = 4.059$	P=0.044*	. /
Interpersonal Relationshi	р			

	Not Good	18(21.7)	6(28.6)	24(23.1)
	Good	65(78.3)	15(71.4)	80(76.9)
		$\chi^2 = 0.448$	P= 0.504	
Type of Family				
	Nuclear/Extended	41(49.4)	11(52.4)	52(50.0)
	Joint	42(50.6)	10(47.6)	52(50.0)
		$\chi^2 = 0.06$	P= 0.81	104
Overall		62(59.6)	42(40.4)	104(100.0)

Figures in ( ) indicate percentages.

P> 0.05 Non Significant,\*P<0.05 Significant, \*\*P<0.001 Highly Significant.

Table 6: Bivariate Analysis: Factors Affecting Contraceptive Practice.

Factor	Category	Contracep	Total	
	Suitegory	Yes	No	
Number of Children				
	3 or more	44(71.0)	25(59.5)	69(66.3)
	Less than 3	18(29.0)	17(40.5)	35(33.7)
		$\chi^2 = 0.89$	P= 0.291	
Education of Wife				
	Others	48(77.4)	18(42.9)	66(63.5)
	Illiterate/Primary	14(22.6)	24(57.1)	38(36.5)
	, , , , , , , , , , , , , , , , , , ,	(/	P<0.001**	( /
Education of Husband				
Education of Husband	Others	58(93.5)	30(71.4)	88(84.6)
	Illiterate/Primary	4(6.5)	12(28.6)	16(15.4)
	Timerate/Timary	1(0.5)	P= 0.004**	10(13.1)
Socio-economic Status			1 - 0.004	
Socio economic status	Middle/High	36(58.1)	16(38.1)	52(50)
	Low	26(41.9)	26(61.9)	52(50)
	LUW	$\chi^2 = 3.994$	P= 0.046*	32(30)
Age of Wife		$\chi = 3.994$	P= 0.040*	
Age of wife	A1 01	(2(100)	40(05.2)	102/09 1)
	Above 21	62(100)	40(95.2)	102(98.1)
	Upto 21	$0(0)$ $\chi^2 = 3.010$	2(4.8)	2(1.90)
		$\chi^2 = 3.010$	P= 0.083	
Age of Husband				
	Above 21	62(100)	41(97.6)	103(99.0)
	Upto 21	0(0)	1(2.4)	1(1.0)
		$\chi^2 = 1.491$	P= 0.222	
Age at Marriage				
	Above 21	18(29.0)	9(21.4)	27(26.0)
	Upto 21	44(71.0)	33(78.6)	77(74.0)
		$\chi^2 = 0.753$	P= 0.385	
Desire for son				
	Yes	51(82.3)	30(71.4)	81(77.9)
	No	11(17.7)	12(28.6)	23(22.1)
		$\chi^2 = 1.705$	P= 0.192	
Having Male child				
	Yes	30(48.4)	29(69.0)	59(56.7)
	No	32(51.6)	13(31.0)	45(43.3)
		$\chi^2 = 4.354$	P= 0.037	, , , ,
Type of Family		2		
<u> </u>	Nuclear/Extended	31(50.0)	21(50.0)	52(50.0)
	Joint	31(50.0)	21(50.0)	52(50.0)
		21(30.0)	21(00.0)	22(20.0)
Interpersonal Relationship				
merpersonal Relationship	Not Good	16(25.8)	8(19.0)	24(23.1)
	Good	46(74.2)	34(81.0)	80(76.9)
	Good	$\chi^2 = 0.644$	P= 0.422	00(70.9)
OII				104/100 0
Overall	]	62(59.6)	42(40.4)	104(100.0)

Figures in ( ) indicate percentages. P> 0.05 Non Significant,\*P<0.05 Significant, \*\*P<0.001 Highly Significant.

Table 7: Logistic Regression of Factors not Aware of Contraceptives.

Factor	B S.E. Sign		C:~	Odda Dotio – Evm(D)	95% CI for OR	
ractor	D	S.E.	Sig.	Odds Ratio = Exp(B)	Lower	Upper
Three or more vs. less children	290	.692	.676	.749	.193	2.907
Illiterate/primary vs. educated wife	1.868	.709	.008**	6.473	1.614	25.962
Illiterate/primary vs. educated husband	.600	.751	.424	1.822	.418	7.936
Low vs. middle/high SES	.396	.678	.559	1.486	.394	5.608
Married up to 21 years vs. later	2.141	1.132	.058	8.512	.926	78.229
No male child	697	.666	.295	.498	.135	1.837
Good personal relation vs. Not Good	221	.699	.752	.802	.204	3.155
Age of wife up to 25 years vs. higher	-1.633	1.188	.169	.195	.019	2.005
Age of husband up <30 years vs. higher	.456	1.171	.697	1.577	.159	15.659
Constant	-3.061	1.556	.049*	.047		

Figures in ( ) indicate percentages.

P> 0.05 Non Significant,\*P<0.05 Significant, \*\*P<0.001 Highly Significant.

Table 8: Logistic Regression of Factors not Using Contraceptives.

Factor	В	S.E.	C:-	Odda Datio – Evm(D)	95% CI for OR	
ractor	D	S.E.	Sig.	Odds Ratio = $Exp(B)$	Lower	Upper
Three or more vs. less children	.077	.561	.891	1.080	.359	3.246
Illiterate/primary vs. educated wife	1.385	.529	.009**	3.996	1.416	11.276
Illiterate/primary vs. educated husband	1.224	.719	.089	3.400	.830	13.930
Low vs. middle/high SES	.327	.520	.530	1.386	.500	3.844
Married up to 21 years vs. later	.054	.551	.921	1.056	.358	3.111
No male child	669	.501	.182	.512	.192	1.367
Good personal relation vs. Not Good	.646	.590	.273	1.908	.601	6.064
Age of wife up to 25 years vs. higher	-1.076	.879	.221	.341	.061	1.910
Age of husband up <30 years vs. higher	256	.842	.761	.774	.149	4.033
Constant	542	.936	.562	.582		

Figures in () indicate percentages.

P> 0.05 Non Significant,\*P<0.05 Significant, \*\*P<0.001 Highly Significant

# DISCUSSION

Present study included 104 women in reproductive age group having delivered at least one child. Overall contraceptive awareness and its practice in the present study were only 79.8% and 59.6% respectively resulting gap between awareness and awareness contraceptives of 20.2%. Lack of knowledge (28.6%) came out to be the most common reasons of not using any contraceptive followed by no faith in family planning (7.1%). None of the difference between mean ages was found statistically significant meaning thereby that age of female and male partners were not significant correlates for contraceptive awareness and contraceptive practice. Women and men were having contraceptive awareness and contraceptive practice irrespective of their ages. Illiteracy/lack of education came out to be risk factor of low contraceptive awareness as well as of not using contraceptives by couples.

Contraceptive awareness and practice in the present study comes out to be low as compared to findings of NFHS-3 and NFHS-4 surveys. [1,2] The contraceptive prevalence rate in India was found to be 56 percent in NFHS-3 Survey, though 98 percent of women and 99 percent of men aged 15-49 years knew one or more methods of contraception. [1] According to NFHS-4, female sterilization is utilized by 35.7% of women,

whereas, male sterilization is utilized by only 0.3% males.  $^{[2]}$ 

Awareness of female sterilization was 34.6% but only 2.9 % practiced it. Use of condoms as spacing method was the most common method of contraception reported by 26.9% women. Use of other methods was also not so prevalent in our study. Overall contraceptive practice in our study was 59.6% as compared to contraceptive use rate of 45.7% reported in Allahabad. [15] Most commonly used method was female sterilization (53.98%), followed by condom (18.40%), then IUCDs (13.49%), injectables, OCPs and Natural methods (approx 4%) use among women in Allahabad in that study.

In a study by Kansal et al (2005), couple protection rate was found to be about 49.9% in Dehradun. [16] Contraceptive 'ever users' rate in Delhi was found to 75% in study conducted by Bhasin, Pant and Kumar (2005). [17] The study conducted in Orissa showed that almost half of the subjects were using some family planning methods and 1/3<sup>rd</sup> of them relied on traditional method of contraception. [18]

In the present study, awareness of permanent methods: tubectomy and vasectomy were found among 34.6% and 24.0% women respectively. According to NFHS-3

Survey, knowledge about various temporary permanent methods among men and women ranges from 45% to 97%: 98 percent of women and 99 percent of men age 15-49 knew one or more methods of contraception.<sup>[1]</sup> Over 94 percent of women and men knew about female sterilization. Male sterilization, by contrast, is known only by 79 percent of women and 87 percent of men. Ninety-three percent of men knew about condoms, compared with 74 percent of women. According to NFHS-4 survey, preference for usage of contraceptive to limit family size is more or less decided by the male partners especially in less developed countries like India, but in the present study women were also found to decide contraceptives. Illiterate and only primary educated women were found at significantly higher risk of having no awareness of contraceptive as well as for not using contraceptive. It supported the fact that literacy among females is the best contraceptive.

Lack of knowledge and no faith in family planning came out to be the most common reasons of not using any contraceptive in our study. Whereas, fear of side-effects (37.5%) followed by in-laws disapproval (21.9%) were reasons of not using contraceptives reported in a rural community of Haryana in an earlier study. [19] Reasons of non-use of family planning methods observed in our study do not agree with the findings of study conducted in rural Egypt wherein infrequent sex (27.3%), fear from the side effects (25%) and husband opposition (15.9%) were the most frequent reasons for non-use of family planning methods among women with unmet need. [20] Present study reported about 4 % induced and 7.7% spontaneous abortions. In India, 33% of an estimated 48.1 million pregnancies are reported to end in induced abortions.[21]

Present study has some limitations in terms of small sample size because of time constraints being project undertaken under STS scheme of ICMR. Moreover, responses of females only were relied upon for collecting desired information on fertility related parameters of couples as male partners could not be interviewed.

#### CONCLUSIONS

Women and men were having contraceptive awareness and contraceptive practice irrespective of their ages. The results of indicate large gap in contraceptive awareness and practice thereof. Illiteracy/lack of education emerged as the major risk factor of low contraceptive awareness as well as its practice Efforts should be made for improving literacy for reducing unmet need of contraception and averting unwanted births.

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