# **Original Research Article** KNOWLEDGE, ATTITUDE AND PRACTICES (KAP) REGARDING FAMILY PLANNING SERVICES AMONG MARRIED WOMEN OF QUETTA PAKISTAN 4 5 6 7

#### 9 ABSTRACT 10

Aims: This study was conducted to investigate the knowledge, attitude and practices (KAP) 11 12 regarding family planning services among married women of Quetta Pakistan.

**Methodology**: A cross sectional study was conducted in obstetrics & gynecology department 13 14 from public sector hospitals of Quetta. Data was collected from February-September 2016 15 from 503 Females who were sexually active, willing to participate and able to understand Urdu and local languages. Knowledge, attitude and practices on family planning were 16 17 assessed with the help of predesigned questionnaire. Statistical analysis was done by using 18 SPSS version 20.Result showed that out of 503 women, majority of them were 41.2% were 19 uneducated, house wife (79.1%), Pashtun 40.6%, 89.7% were belongs to urban area and 20 43.7% were have married life span of 6-10 years. 500 (99.4%) had knowledge about family 21 planning and their methods and it was mainly obtained from TV/Radio (28.8%) followed by 22 health care personal (22.7%). 497(98.8%) believed that use of family planning methods is beneficial, while (62.0%) health care providers encourage them on the use of family planning 23 24 services. 430 (85.5%) women were practicing family planning methods out of which most of 25 them were using condom (39.4%) followed by Oral Contraceptive (20.3%). The relationship 26 between Knowledge and Attitude was investigated using Pearson product-moment 27 correlation coefficient. There was a small, positive correlation between Knowledge-Attitude [r=0.83, p=0.064], Knowledge-Practice [r=0.119, p=0.008] and Attitude-Practice [r=0.119, 28

p=0.001] was observed. Study concluded that overall knowledge attitude and practice was good among women towards contraception. Husband being the dominant member plays the pivotal role in approving the family size and contraceptive practices. Contraceptive knowledge and practice was influenced by media exposure and partner opposition. Women education and counseling of couples can play an important role to adopt family planning methods. There is a need to improve the educational status of the females to improve their understanding and uptake of modern contraceptives.

#### 36 KEYWORDS

37 Family planning, methods of contraceptives, KAP,

#### 38 1.Introduction

Reproduction is a mutual commitment where the contribution of men is equivalent to the contribution of women, but it is so often considered to be completely a women's responsibility [1]. Among the worries of a poor, one of them is a large number of children who will be dependent on them [2]. In the matters of family planning and reproduction, women are always influenced by the opinions of her husband [3]. The opinions of the woman are never taken into consideration [3].

The communication between the spouses on the matters of reproduction and family planningis absolutely vital in having a prosperous family and individual life [4].

The best way to ensure the optimal growth of each family member and achieve the number of children desired is surely proper family planning [5]. The basic purpose of family planning is to help couples avoid the unwanted births and let the wanted births occur, regulate the intervals between pregnancies, for controlling the birth of a child in relation to the age of parents or <del>for</del> determining the number of children afamily wants [6]. Family planning education is considered to have a great effect on the spouses in case of family planningacceptance and fertility [7].

Family planning is not based on a single method, there are a number of methods available for the willing couples. These methods are divided on the bases of their criteria, such like the format, could be traditional/modern, it may be natural/artificial, in terms of duration it could be temporary/permanent, specific for male/female or the mode of usage could be oral/injectable/IUCDs [8].

59 The objective of the concept of deliberate prevention of impregnation is; firstly, to have the 60 desired number of children and secondly, to have proper spacing between pregnancies [9]. By 61 saying that family planning is a mutual commitment, it is meant that the men's participation 62 in family planning should not be limited to periodic abstinence or usage of condoms, but it is 63 meant to have a better understanding with their wives to allow them to use other methods too[10]. The concept of deliberate prevention of impregnation among the currently married 64 65 women varies clearly by education, religion, caste, socioeconomic status, the type of family and etc[11]. 66

Being one of the populous countries of the world Pakistan is currently declining in case of providing land, water and food resources to its citizens [12]. The population growth of Pakistan is increasing drastically and has reached to 3% per year which is eating away the economic gain of the country [12]. An alarm for the country is that, the ratio of avoiding the concept of family planning in families is increasing rapidly rather than slowing [13].

It is recommended that for improving the concept of family planning and the concept of deliberate prevention of impregnation in Pakistan we need to use different media resources [14]. It is also noted that health of males is better than females, which is alarming situations for the female in Pakistan [15]. The need of the hour is to educate all the couples and their parents about the benefits of family planning, and try to create awareness among women that they also have rights to have their own opinions about the size of family [14]. Therefore this study aimed to assess knowledge, attitude and practices (KAP) regarding family planning services among married women of Quetta Pakistan.

#### 80 **2. METHODOLOGY**

#### 81 **2.1 Study Design, Setting and Duration**

82 The cross-sectional study was designed to analyze the knowledge, attitude and practice 83 (KAP) of family planning among married women attending tertiary care hospitals in Quetta, 84 Balochistan, Pakistan. This study was conducted in Sandeman Provisional Hospital and 85 Bolan Medical Complex Hospital, which arepublic-sector hospitals in Quetta, Pakistan. 86 Duration of whole study was from February to September 2016 however, convenient sampling technique was used based on availability of female patients attended 87 88 gynecologydepartmentof Sandeman provisional Hospital and Bolan Medical Complex 89 Quetta during April to July 2016.

# 90 **2.2 PARTICIPANTS**

#### 91 2.2.1. Inclusion Criteria

Females who were sexually active, willing to participate in this study and able to understand
national language of Pakistan (Urdu) and local languages (Pashto, Balochi)

#### 94 2.2.2. Exclusion Criteria

95 Females who were widow, menopaused and were not willing to participate in this study.

#### 96 **2.3 STUDY TOOL**

97 The knowledge, attitude and practice on family planning assessed by using questionnaire, the 98 primary version of questionnaire was developed byDanget[16]. It underwent some modifications according to the population from which data had to be collected under the 99 100 process of validation in which the questionnaire went through a face and content validation 101 by experts from Department of Pharmacy Practice, Faculty of Pharmacy, University of 102 Baluchistan, Quetta. The English version was later translated into Urdu by using standard 103 forwardbackward-forward translating method [17] and approved by Faculty of Pharmacy 104 expert committee. The questionnaire was composed of five domains:

105 1. Demographics

- 106 2. Knowledge
- 107 3. Attitude
- 108 4. Practice
- 109 5. Source of knowledge

### 110 **2.4. PROCEDURE**

The questionnaire was distributed for data collection. Patients who were educated filled the questionnaire by their own but as majority respondents were uneducated so patients were interviewed from questionnaire in their local languages. Sampling population was all those sexually active female patients attending different tertiary care hospitals. During 3 months of data collection 503 questionnaires were filled.

### 116 **2.5. ETHICAL CONSIDERATION**

The study was performed according to National Bioethics Committee Pakistan's guidelines
[18] and study approved by Department of Pharmacy Practice, Faculty of Pharmacy,
University of Balochistan, Quetta, Pakistan. According to the standards, written consent was

taken from patients prior to data collection. Before conducting the survey proper permission
from Medical superintend (MS) of each hospital was taken in the form of approval letters.
Informed consent was presented to the patient and their willingness was given priority prior
to data collection.

### 124 2.6. DATA ANALYSIS

Collected data was entered in SPSS(PSW) version 20. Descriptive statistics were used to 125 126 demonstrate the characteristics of the study population. Categorical variables were measured 127 as frequency and percentage where continuous variables were expressed as mean +standard 128 deviation.Inferential statistics (Mann-Whitney U test and Kruskal Wallis tests p<0.05) were 129 used to assess significance among study variables. Correlations among Knowledge-Attitude, 130 Knowledge-Practice and Attitude-Practice were interpreted using the following criteria [19]. r= 0.10 to 0.29 or r=-0.10 to -0.29 small correlation, r=0.30 to 0.49 or r=-0.30 to -0.49 131 medium correlation and r=0.50 to 1.0 or r=-0.50 to -1.0 large correlation. 132

### 133 **3. RESULTS**

#### 134 **3.1. Demographics**

Demographic characteristics are shown in table 1, in which majority of respondents 136 (27.0%) were have age ranges between 28 to 32 years. Majority of respondents 207 (41.2%) were uneducated. Majority of respondents 398 (79.1%) were house wife. Majority of respondents 204 (40.6%) were Pashtun. Mainstream of respondents 451 (89.7%)were belongs from urban area. Most of participants 220 (43.7%) were have married life span of 6-10 years. Most of the respondents 252 (50.1%) were have 1- 3 children.

			143
Description	Frequency (n=503)	Percentage %	
Age			144
13-17 years	08	1.6	145
18-22 years	54	10.7	110
23-27 years	130	25.8	146
28-32 years	136	27.0	
33-37 years	86	17.1	
38-42 years	89	17.7	147
Number of children			1
1-3 children	252	50.1	148
4-6 children	173	34.4	
7-9 children	55	10.9	
10-12 children	22	4.4	149
13-15 children	1	0.2	
Married life span		110	150
1-5 years	175	34.8	150
6-10 years	220	43.7	
11-15 years	60	11.9	151
16-20 years	22	4.4	101
21-25 years	26	5.2	
Education			
Primary	68	13.5	
Secondary	35	7.0	
Matric	69	13.7	
Intermediate	65	12.9	
Graduate	22	4.4	
Uneducated	207	41.2	
other	37	7.4	
Occupation			
Student	11	2.2	
Employee	91	18.1	
House wife	398	79.1	
Other	3	.6	
Ethnicity			
Pashtun	204	40.6	
Baloch	144	28.6	
Panjabi	62	12.3	
Urdu	47	9.3	
Sindhi	27	5.4	
Other	19	3.8	
Locality			
Rural	52	10.3	
Urban	451	89.7	

# 142 Table 1: Demographic characteristics of respondents

#### 152 **3.2.** Knowledge Attitude and Practice of Family Planning Services

153 Knowledge attitude and practice of the family planning services shown in table 2. Majority of respondents 500 (99.4%) heard about family planning. Majority of respondents 500 (99.4%) 154 155 knew about family planning methods. Majority of respondents 480 (95.4%) think natural family planning is an appropriate method. Mainstream of respondents 430 (85.5%) were used 156 condom to prevent from sexually transmitted diseases. Majority of respondents 497 (98.8%) 157 agreed family planning is beneficial. Majority of respondents 453 (90.1%) were encourage by 158 159 elder people in their community about family planning servicesMajority of respondents 430 160 (85.5%) used family planning methods. Majority of respondents 430 (85.5%) had attend 161 family planning services in their life time.

# Tale 2: Knowledge, Attitude and Practice of Family Planning Service

Questions	Yes	No	Don't know
KNOWLEDGE			
Have you heard about family planning	500(99.4%)	3(.6%)	0 (0%)

Do you know methods of family planning	500(99.4%)	3(.6%)	0(0%)
Natural family planning is one method which is used without using any pills. Do you think it is appropriate method for family planning	480(95.4%)	11(2.2%)	12(2.4%)
Condom is used for prevention of HIV/AIDS. Do you think it can prevent you from getting pregnant	430(85.5%)	47(9.3%)	26(5.2%)
ATTITUDE			
Use of family planning methods is beneficial	497(98.8%)	5(1.0%)	1(.2%)
Do elderly people in your community encourage you on the use of family planning services	453(90.1%)	50(9.9%)	0(0%)

Do your parents encourage you on the use of family planning services	426(84.7%)	77(15.3%)	0((0%)
Do your friends encourage you on the use of family planning services	374(74.4%)	129(25.6%)	0(0%)
Do your religious leader encourage you on the use of family planning services	67(13.3%)	436(86.7%)	0(0%)
Do your health care providers encourage you on the use of family planning services	312(62.0%)	191(38.0%)	0(0%)
PRACTICE	1	1	1

Have you ever used family planning methods	430(85.5%)	73(14.5%)	0(0%)
Have you ever attended family planning services in your lifetime	430(85.5%)	73(14.5%)	0(0%)

# **3.3. Family Planning Services Taken**

Table 3 showed family planning services taken. Majority of respondents 429 (85.5%) were
taken family planning. Majority of respondents 204 (40.6%) get services from hospital. Most
of respondents 186 (36.7%) frequently seek the family planning services every time when
they want to have sex with their partner

# 170 Table 3: Family Planning Services Taken

Questions	Frequency	Percentage				
Family planning services taken						
Yes	429	85.5%				
No	74	14.7%				
Family planning services taken from						
Hospital	204	40.6%				
Health center	113	22.5%				
Dispensary	8	1.6%				
Pharmacy	26	5.2%				
Others	83	16.5%				
Frequency of family planning services						

Every time I want to sex with my		171
partner		
Yes	185	36.8% 172
No	249	49.5%
Every week		173
Yes	128	25.4%
No	306	60.8% 174
Every 2 weeks		175
Yes	32	6.4%
No	402	79.9% 176
Monthly		
Yes	104	20.7% 177
No	330	65.6%
Yearly	L	178
Yes	5	1.0% 170
No	429	85.3% 179
5-10 years		180
Yes	37	7.4%
No	397	78.9%
In future		181
Yes	5	1.0%
No	429	85.3%
Long lasting		
Yes	16	32%
No	418	83.1%

#### **3.4. Methods of Family Planning** 182

- Table 4 showed methods used for family planning. There are 12 methods of family planning 183
- but majority of respondents 200 (39.4%) have used male condom Majority of respondents 184
- 185 used contraceptive method for the purpose to prevent the unwanted birth

#### 186

#### 187 **Table 4: Methods of family planning**

Question	Frequency	Percentage
Methods Used for Family Plannin	ng	
Oral contraceptives	103	20.3%
Male condom	200	39.4%
Injectable contraceptives	87	17.2%
Loop contraceptives	34	6.7%
Tube ligation	18	3.6%
Other	65	12.8%
Reason for Using Contraceptives		
Having a child when required	75	15.2%
Spacing of birth	136	27.6%
Prevention of unwanted birth	177	35.9%
Prevention of sexually transmitted	disease 37	7.5%
Improvement of health	68	13.5%

# 188

#### 189 3.5. Source of Knowledge

- 190 Table 5 showed the source of knowledge. Most of respondents 267(31.5%) get knowledge
- from Family Planning Services. 191

### 192

#### Table 5: Source of knowledge 193

Source	Frequency	Percentage
T.V/radio	244	28.8%
Friends/relatives	144	17.0%
Health personnel	192	22.7%
Family Planning Services	267	31.5%

194

# 195 **3.6. Knowledge Attitude and practice level of Family Planning**

Table 6 showed Knowledge attitude and practice level. Majority of respondents 498(99.0)
have adequate knowledge about family planning.Most of respondents 381(75.7%) have
adequate attitude about family planning. Most of respondents 431 (85.7%) were used the
family planning services.

200

y Percentage
99.0%
1.0%
75.7%
24.3%

431

85.7%

#### 201 Table 6: Knowledge, attitude and practice level of family planning

202

203

### 204 3.7. Mean Comparison of Knowledge, Attitude and Practice Score

People who are using these services

In table 7 mean comparison of individual demographics characteristics were taken and mean 205 comparison is calculated and determining of p-value have been done which shows that some 206 207 of the p-values are exceeding than 0.05 that show no significance over study 208 particularly there is no statistical significant difference in the knowledge score of Age groups, Number of children, Married life span, Occupation, Ethnicity and locality. Comparison Of 209 210 Mean Attitude Score, the individual demographics characteristics were taken and mean 211 comparison is calculated and determining of p-value have been done which shows that some 212 of the p-values are exceeding than 0.05 that show no significance over study

particularly there is no statistical significant difference in the attitude score of number of 213 214 children, married life span, Ethnicity and locality while some of demographics shows there is 215 statistically significant difference among age group (p < 0.026), Education (p < 0.003) which 216 shows statistically significant difference in the attitude score. Comparison of mean practice, 217 the individual demographics characteristics were taken and mean comparison is calculated 218 and determining of p- value have been done which shows that some of the p-values are exceeding than 0.05 that show no significance over study particularly there is no statistical 219 significant difference in the practice of Age groups ,number of children ,education 220 221 occupation and locality while some of demographics shows there is statistically significant 222 difference among married life span (p<.000) and Ethnicity (p<0.025), which 223 shows statistically significant difference in the practice.

224

#### Table 7: Comparison of mean knowledge, attitude, and practice score

Description	Frequency n=503	Mean knowledge <u>+</u> SD	P value	Mean attitude <u>+</u> SD	P value	Mean practice <u>+</u> SD	P value
Age *							
13-17 years	08	3.75 <u>+</u> 0.707		3.75 <u>+</u> 0.707		3.75 <u>+</u> 0.707	
18-22 years	54	3.80 <u>+</u> 0.407		3.87 <u>+</u> 1.229		0.81 <u>+</u> 0.392	
23-27 years	130	3.82 <u>+</u> 0.445	0.702	4.11 <u>+</u> 1.259		0.85 <u>+</u> 0.355	0.916
28-32 years	136	3.74 <u>+</u> 0.609	0.705	4.45 <u>+</u> 1.191	0.026	0.84 <u>+</u> 0.370	0.810
33-37 years	86	3.86 <u>+</u> 0.349		4.29 <u>+</u> 1.291		0.90 <u>+</u> 0.308	
38-42 years	89	3.85 <u>+</u> 0.386		4.27 <u>+</u> 1.250		0.87 <u>+</u> 0.343	
Number of child	ren *	/					
1-3 children	252	3.80 <u>+</u> 0.473		4.21 <u>+</u> 1.260		0.80 <u>+</u> 0.403	
4-6 children	173	3.80 <u>+</u> 0.427		4.23 <u>+</u> 1.230		0.91 <u>+</u> 0.282	
7-9 children	55	3.84 <u>+</u> 0.601	0.741	4.33 <u>+</u> 1.218	0.801	0.93 <u>+</u> 0.262	0.008
10-12children	22	3.82 <u>+</u> 0.501	0.741	4.45 <u>+</u> 1.226		0.86 <u>+</u> 0.351	
13-15children	1	4.00 <u>+</u> .		4.00 <u>+</u> .		1.00 <u>+</u> .	
Married life spa	n *						
1-5 years	175	3.80 <u>+</u> 0.467		3.99 <u>+</u> 1.320		0.76 <u>+</u> 0.428	
6-10 years	220	3.80 <u>+</u> 0.499		4.35 <u>+</u> 1.175		0.93 <u>+</u> 0.260	
11-15 years	60	3.73 <u>+</u> 0.516		4.42 <u>+</u> 1.239	0.201	0.88 <u>+</u> 0.324	001
16-20 years	22	3.95 <u>+</u> 0.213	0.203	4.41 <u>+</u> 1.141		0.77 <u>+</u> 0.429	.001
21-25 years	26	3.92 <u>+</u> 0.272		4.38 <u>+</u> 1.169		0.88 <u>+</u> 0.326	
Education *							

Primary	68	3.68+0.609		4.46+1.12		0.84+0.371	
Secondary	35	3.77+0.426		4.51+1.222		0.89+0.323	
Matric	69	3.80+0.405		4.30+1.154		0.87+0.339	
Intermediate	65	3.89+0.312		4.15+1.215	0.002	$0.78 \pm 0.414$	
Graduate	22	3.86+0.351	0.108	4.09+1.192	0.005	0.86+0.351	0.707
Uneducated	207	3.83+0.496		4.03+1.334		0.87+0.333	
other	37	3.76+0.490		4.84+.916		0.84 + 0.370	
Occupation							
Student	11	3.82 <u>+</u> 0.405		3.91 <u>+</u> 1.044		0.73 <u>+</u> 0.467	
Employee	91	3.82 <u>+</u> 0.411		4.45 <u>+</u> 1.186		0.81 <u>+</u> 0.392	
House wife	398	3.80 <u>+</u> 0.490	0.866	4.20 <u>+</u> 1.256	0.225	0.87 <u>+</u> 0.337	0.237
Other	3	4.00 <u>+</u> 0.000	0.800	4.33 <u>+</u> 1.528		0.67 <u>+</u> 0.577	
Ethnicity *			•		•		÷
Pashtun	204	3.81 <u>+</u> 0.501		4.05 <u>+</u> 1.367		0.85 <u>+</u> 0.360	
Baloch	144	3.80 <u>+</u> 0.452		4.37 <u>+</u> 1.102		0.86 <u>+</u> 0.347	
Panjabi	62	3.77 <u>+</u> 0.422		4.19 <u>+</u> 1.265		0.74 <u>+</u> 0.441	
Urdu	47	3.74 <u>+</u> 0.607		4.49 <u>+</u> 1.140	0.160	0.89 <u>+</u> 0.312	0.025
Sindhi	27	3.89 <u>+</u> 0.320	0.497	4.44 <u>+</u> 1.050	0.100	0.96 <u>+</u> 0.192	
Other	19	3.95 <u>+</u> 0.229		4.53 <u>+</u> 1.020		1.00 <u>+</u> 0.000	
Locality **							
Rural	52	3.60 <u>+</u> 0.799		4.15 <u>+</u> 1.513	1 4	0.77 <u>+</u> 0.425	0.064
Urban	451	3.83 <u>+</u> 0.414	0.11	4.25 <u>+</u> 1.202	0.886	0.86 <u>+</u> 0.342	0.064
ψτζ 1 1 ττ	11						

227 \* Kruskal Wallis Test

228 \*\* Mann-Whitney U test

229 Sig < 0.05

230

# 231 **3.8.** Correlation between knowledge, attitude and practice

- 232 Correlations were interpreted using the following criteria [19]. r= 0.10 to 0.29 or r=-0.10 to -
- 233 0.29 small correlation, r=0.30 to 0.49 or r=-0.30 to -0.49 medium correlation and r=0.50 to
- 1.0 or r=-0.50 to -1.0 large correlation.

235 The relationship between Knowledge and Attitude was investigated using Pearson product-

236 moment correlation coefficient shown in table 8. There was a small, positive correlation

- between Knowledge-Attitude [r=0.83, p=0.064], Knowledge-Practice [r=0.119, p=0.008] and
- Attitude-Practice [r=0.119, p=0.001] was observed.
- 239

#### 240 Table 8. Correlation between knowledge, attitude and practice

Variable	Correlation coefficient	P Value
Knowledge-Attitude	0.083	0.064
Knowledge-Practice	0.119	0.008

Attitude-Practice	0.235	0.001

241 Reference

242 Cohen, J. (1992). A power primer. *Psychological bulletin*, 112(1), 155.

243

### 244 DISCUSSION

The adoption of modern contraceptives in recent decades and the use of safer and more

effective preventive measures of preventing pregnancyhave helped people around the world

choose and make decisions. They are responsible for reproducing and benefiting from family

248 planning services and methods.

Knowledge of any modern contraceptive method among respondents was found to be extremely high in this study as shown in results. It is showed that methods of family planning such as Oral contraceptives, Male condom, Injectable contraceptives, Loop contraceptives, Tube ligation all are known to married females and showed their practices towards family planning services this is parallel with The Cambodia Demographic and Health Survey 2005 which showed similar results that 99% of married women knew of at least one method of modern contraceptive [20]

Family planning is observed in all ethnic classes. Most of people are practicing family planning services all over the groups Study finding showed that family planning is proceeding similar results were obtained in a study conducted in Karachi [13].Family planning services are usedby respondents which is similar with study conducted by Handady et al;, they highlighted that Family planning services in country are still developing [21]

It is showed in this study that Condom is used for prevention of HIV/AIDS and can prevent respondents on getting pregnant which is supported by the argument that evidence shows that more than half of the respondents understand that condom usage can be an effective contraceptive, this is consistent with study findings, whereas previously condoms wereviewed only as a method for preventing HIV transmission [20].

It is shown in results, the respondents who take family planning services from any means is high among respondents and they know various means of getting family planning services, which is similar to findings of study that respondents know where to receive family planning information and services was high among respondents, and they knew at least one place to obtain family planning information and one place to access family planning services [20]

271 Similarly, this study also reported that Women illiteracy is one of the factor that affects the 272 knowledge regarding contraception their effects and consequences. However, knowledge was 273 found greatly high and it showed the need and practice of all groups of respondents. Pakistan 274 has low literacy rate, even lower in rural areas [13] This is also reflected in the study where 275 illiteracy level was 41.2% in contrast to 90% in Karachi 78% in India and 62% in another study of same province.[13]. Literacy level among the women emphasizes the need for 276 277 education as a key component to combat overpopulation and will encourage the use of 278 contraceptive[13]. It was also reported that illiteracy rate was same in the previous study 279 [22].Similarly, study was reported that knowledge of family planning methods are the exposure of messages through media. Electronic media play an important role in a society 280 where literacy level is low. Fikree et al. stated that women were more likely to use 281 contraceptives when messages of family planning were delivered through media [23-26]. 282

Similarly, study also reported an exposure to electronic media messages as the main factor for use of family planning methods among women [27]. similarly ,a study was reported that majority of respondents had gained information from media [24, 28]. In contrast another study reported as relatives and friends being the major source of information[29]. An Ethiopian study showed that health personnel contributed in providing information regarding contraception, which is opposite to the results [30]. In the present study majority of the interviewed women were practicing family planning methods, whereas other studies in different provinces of Pakistan showed lower contraceptive prevalence rates[31, 32]. High level of awareness about contraceptive use has also been reported in previous study [21]. It is also shown in study that knowledge relating to sources of information had increased by 29% and knowledge relating to family planning facilities had increased twofold. The local health center is the main source of family planning services and information [20].

It is showed in results that reason for using contraceptives was for the purpose to prevent the unwanted birth this is in line with findings that It is likely that family planning programs increased respondents' awareness about being able to have control over their own fertility, spacing out the births of their children and reducing the chance of unwanted pregnancies. It can be inferred from this study's findings that women are likely to desire a smaller family size in order to stay healthy, with more time to look after their children and to participate in the workforce [20].

Regarding the usage of family planning methods, an important dimension is the type of contraception used. Condom was the most common chosen method used by couples as shown in other studies as well [21, 24, 28, 33-36]. Women not practicing contraception was lower as compared to other studies of Pakistan [13]. Fear of side-effects also emerged as an important impediment to contraceptive use which is also a recurrent theme in many studies conducted in developing countries including Pakistan, India, Bangladesh, and Ethiopia [21, 37, 38].

#### 308 5. CONCLUSION

309 Study concluded that overall knowledge attitude and practice was good among women 310 towards contraception. Husband being the dominant member plays the pivotal role in 311 approving the family size and contraceptive practices. Contraceptive knowledge and practice was influenced by media exposure and partner opposition. Women education and counseling of couples can play an important role to adopt family planning methods. There is a need to improve the educational status of the females to improve their understanding and uptake of modern contraceptives.

#### 316 6. LIMITATION

This study had several limitations, the sample size was small, and women answered to the questions as to what they perceived. This could affect the responses although every possible effort was made to obtain correct information. Further studies with larger sample size should be done to get more accurate knowledge on the use and awareness of Contraception

321

### 322 **DECLARATIONS**

#### 323 Ethics approval and consent to participate

- 324 The study was performed according to National Bioethics Committee Pakistan's guidelines.
- and study approved by Department of Pharmacy Practice, Faculty of Pharmacy, University of
- 326 Balochistan, Quetta, Pakistan. According to the standards, written consent was taken from
- 327 patients prior to data collection
- 328 **Competing interests**
- 329 The authors declare that they have no competing interests
- 330

#### 331 **REFERENCES**

- 3321.Rakhshani, F. and M. Square, Increasing Men's Knowledge, Attitude and Practice Regarding333Family Planning Through. J. Med. Sci, 2006. 6(1): p. 74-78.
- Campbell, A.A., *The role of family planning in the reduction of poverty*. Journal of Marriage
   and the Family, 1968: p. 236-245.
- 3. Khalifa, M.A., *Attitudes of urban Sudanese men toward family planning.* Studies in family
  planning, 1988. **19**(4): p. 236-243.
- 4. Lasee, A. and S. Becker, *Husband-wife communication about family planning and*
- 339 *contraceptive use in Kenya*. International family planning perspectives, 1997: p. 15-33.
- Arbab, A., A. Bener, and M. Abdulmalik, *Prevalence, awareness and determinants of contraceptive use in Qatari women.* 2011.

342	6.	Deb, R., Knowledge, Attitude and Practices related to Family planning methods among the
343		khasi Tribes of East Khasi hills Meghalaya. Anthropologist, 2010. <b>12</b> (1): p. 41-45.
344	7.	Dhingra, R., et al., Attitude of couples towards family planning. Journal of Human Ecology,
345		2010. <b>30</b> (1): p. 63-70.
346	8.	Almualm, A. and Y. Khamis, Knowledge, attitude and practice of husbands towards modern
347		family planning in Mukalla, Yemen, 2007, USM.
348	9.	Dabral, S. and S. Malik, Demographic study of Gujjars of Delhi: IV. KAP of family planning.
349		Journal of Human Ecology, 2004. <b>16</b> (4): p. 231-237.
350	10.	Kiani, M., Understanding mens role in family planning in Pakistan. 2000.
351	11.	Vishwakarma, K., K. Yadav, and M. Bhargava, Family Planning, Knowledge, Attitude, Practice.
352		A STUDY OF AWARENESS AND ATTITUDE OF POSTNATAL AND POST ABORTAL WOMEN
353		TOWARDS FAMILY PLANNING METHODS AND THEIR USE, AT RURAL TERTIARY CARE CENTRE,
354		2014(4232).
355	12.	Ayub, A., Z. Kibria, and F. Khan, Assessment of Knowledge, Attitude and Contraceptive use in
356		Married Women of Peshawar. J Dow Univ Health Sci, 2015. <b>9</b> (1): p. 89-93.
357	13.	Mustafa, R., U. Afreen, and H.A. Hashmi, Contraceptive knowledge, attitude and practice
358		among rural women. J Coll Physicians Surg Pak, 2008. 18(9): p. 542-545.
359	14.	Khawaja, N., R. Tayyeb, and N. Malik, Awareness and practices of contraception among
360		Pakistani women attending a tertiary care hospital. Journal of obstetrics and gynaecology,
361		2004. <b>24</b> (5): p. 564-567.
362	15.	Nasim, A., et al. Assessment of Health Related Quality of Life of healthy population of
363		Pakistan. in VALUE IN HEALTH. 2017. ELSEVIER SCIENCE INC 360 PARK AVE SOUTH, NEW
364		YORK, NY 10010-1710 USA.
365	16.	Dangat, C.M. and B. Njau, Knowledge, attitudes and practices on family planning services
366		among adolescents in secondary schools in Hai District, northern Tanzania. Tanzania journal
367		of health research, 2013. 15(1).
368	17.	Behling, O. and K.S. Law, Translating questionnaires and other research instruments:
369		Problems and solutions. Vol. 133. 2000: Sage.
370	18.	NBC, N.B.C., Human Subject Research Ethics, in National Bioethics Committee (NBC), P. Dr.
371		Farhat Moazam MD, Editor 2016, Healthcare Ethics Committee (HCEC): Karachi.
372	19.	Cohen, J., A power primer. Psychological bulletin, 1992. 112(1): p. 155.
373	20.	Sreytouch, V., Knowledge, Attitude and Practice (KAP) of Family Planning among Married
374		Women in Banteay Meanchey, Cambodia. Ritsumeikan Journal of Asia Pacific Studies, 2010:
375		p. 103-16.
376	21.	Handady, S.O., et al., Knowledge, Attitude and Practice of Family Planning Among Married
377		Women Attending Primary Health Center in Sudan. International Journal of Public Health
378		Research, 2015. <b>3</b> (5): p. 243.
379	22.	Sajid, A. and S. Malik, <i>Knowledge, attitude and practice of contraception among multiparous</i>
380		women at Lady Aitchison Hospital, Lahore. Annals of King Edward Medical University, 2010.
381		<b>16</b> (4).
382	23.	Fikree, F.F., et al., What influences contraceptive use among young women in urban squatter
383		settlements of Karachi, Pakistan? International family planning perspectives, 2001: p. 130-
384		136.
385	24.	Prachi, R., et al., A study of knowledge, attitude and practice of family planning among the
386		women of reproductive age group in Sikkim. Religion, 2008. 35(44years): p. 34.
387	25.	Gupta, N., C. Katende, and R. Bessinger, Associations of mass media exposure with family
388		planning attitudes and practices in Uganda. Studies in family planning, 2003: p. 19-31.
389	26.	Qazi, H.A., et al., Contraceptive methods and factors associated with modern contraceptive
390		in use. Journal of family and reproductive health, 2010. 4(1): p. 41-46.
391	27.	Boulay, M., J.D. Storey, and S. Sood, Indirect exposure to a family planning mass media
392		<i>campaign in Nepal.</i> Journal of health communication, 2002. <b>7</b> (5): p. 379-399.

393 28. Renihen, P., et al., A study on knowledge, attitude and practice of contraception among 394 college students in Sikkim, India. Journal of the Turkish German Gynecological Association, 395 2010. 11(2): p. 78. 396 29. Omo-Aghoja, L., et al., Factors associated with the knowledge, practice and perceptions of 397 *contraception in rural southern Nigeria*. Ghana medical journal, 2009. **43**(3). 398 30. Senbeto, E., A Study on Knowledge, Attitude, Practice and Quality of Care in Family Planning 399 at Dessie Zuria District. Journal of Ethiopian Medical Practice, 2001. 3(2): p. 70-76. 400 31. Ali, S., S. Rozi, and M. Mahmood, Prevalence and factors associated with practice of modern 401 contraceptive methods among currently married women in District Naushahro Feroze. JPMA. 402 The Journal of the Pakistan Medical Association, 2004. 54(9): p. 461-465. 403 32. Ali, S. and F. White, Family planning practices among currently married women in Khairpur 404 District, Sindh, Pakistan. Journal of the College of Physicians and Surgeons--Pakistan: JCPSP, 405 2005. **15**(7): p. 422-425. 406 33. Essien, E.J., et al., Emerging sociodemographic and lifestyle predictors of intention to use 407 condom in human immunodeficiency virus intervention among uniformed services personnel. 408 Military medicine, 2006. 171(10): p. 1027-1034. 409 34. Araoye, M., O. Fakeye, and E. Jolayemi, Contraceptive method choices among adolescents in 410 a Nigerian tertiary institution. West African journal of medicine, 1997. 17(4): p. 227-231. 411 35. Laiq, N., et al., Fertility and choice of family planning practices in rural Islamabad. Pak J Med 412 Res, 2005. 44(4): p. 149-52. 413 Srivastav, A., M.S. Khan, and C.R. Chauhan, Knowledge, Attitude and Practices about 36. 414 Contraceptive among Married Reproductive Females. Editorial Board, 2014. 1: p. 2. 415 37. Desai, R.M., Knowledge, attitude and practice of contraception among women attending a 416 tertiary care hospital in India. Parity, 2013. **41**(45): p. 04. 417 Mustafa, G., et al., Family planning knowledge, attitudes, and practices among married men 38. 418 and women in rural areas of Pakistan: Findings from a qualitative need assessment study. 419 International journal of reproductive medicine, 2015. 2015. 420

420