

Study of women's reproductive health knowledge, awareness, and attitudes in Borgaon Village, Wardha District....

Comment [N1]: Add year of study

Abstract:

Background: Reproductive health is defined as a state of complete physical, psychological, and social contentment, free of sickness, as well as the functions and activities of the reproductive system. Sexual and reproductive health care, which includes HIV/AIDS, includes the prevention and treatment of sexually transmitted diseases (STDs). The reproductive health care system aids in the right diagnosis, treatment, and management of illness urgent conditions. **Aim:** Aim was to study about knowledge, awareness and attitude towards reproductive health of women in Borgaon Village of Wardha District. **Methodology:** Personal interview and well structured questionnaires was framed for women of 20 – 45 years of age groups from Borgaon village. Data was collected. Verbal consent of the subject was taken before interview. **Result:** As per the statistics, 78% women were use sanitary pads though 55% women were still used napkins & cottons due to lack of awareness, shyness & low economic condition. 82% women were aware about contraception but still 59% women preferred to use it, because they were worried about its side effects. It was found that, when women came across any gynecological problem only 67% of them had quick approach to doctor. 76% women thought about the need of learning reproductive knowledge. **Conclusion:** It was concluded that we still need to aware the society about reproductive health of women because whole society should be well known about the measures to be taken and how to act wisely to deal with a woman suffering from any illness regarding reproductive health.

Comment [N2]: Update your manuscript after you correct all the comment below

Comment [N3]: In methodology you have to incorporate :study design, Sampling procedure, data collection and data analysis techniques sequentially.

Comment [N4]: Say 'before data collection attempt ; verbal consent was taken from the study participant'.

Comment [N5]: Is it in your finding? if not remove.

Keywords: Knowledge, Women, Reproductive health, Awareness, Attitude

Introduction:

Reproductive health is defined as a state of complete physical, psychological, and social contentment, free of sickness, as well as the functions and activities of the reproductive system. Sexual and reproductive health care, which includes HIV/AIDS, includes the prevention and treatment of sexually transmitted diseases (STDs). The reproductive health care system aids in the right diagnosis, treatment, and management of illness urgent conditions.

According to the World Health Organization (2017), period after childhood and before adulthood is known as adolescence. Human growth and development occur around 10 to 19 years of age. The adolescence is further classified into three phases that are early 10 to 13 years of age, mid 14 to 15 years of age & late i.e. 14 to 19 years of age. Somatic and mental development of girl for safe motherhood is nothing but the period of adolescence. Overall adolescent health is covered under reproductive health. [1]

From past few years it is noticed that the effect of occupational exposure on women's reproductive health is great. Earlier studies only focused on health of fetus instead of reproductive health of women. But now, it is found that reproductive toxins lead to hormonal imbalance resulting in disturbed menstrual cycle, ovulation and fertility rate of women. So, the attention is shifted towards occupational health hazards among pregnant women and fetus. [2]

Stress is one of the major issues in the society and it is always found that women are highly exposed to mental, physical as well as physiological stress. Mental i.e. psychological stress has great impact on reproductive health of women. Because stress produces the generation of ROS means Reactive Oxygen Species and leads to oxidative stress (OS). This oxidative stress affects health of ovary, quality of oocytes and ultimately results in disorders of reproductive health of women. Shatavari i.e. *Asparagus racemosus* is widely prescribed ayurvedic medication to tackle stress induced reproductive health disorders. Shatavari is known as rasayana drug and also counts in major health tonics. [3]

Menstruation is the unique concept in women. Beginning of menstruation is noticeable changes occur in girl during her adolescent years. Still menstruation is considered as something dirty and unclean in our society. Ultimately response towards menstruation depends upon the knowledge and the awareness of the people. Though menstruation is purely a natural process some misconceptions lead to adverse health outcomes. During menstruation maintaining hygiene is a very important factor because it results in reproductive tract infection (RTI). Now a days many women are suffering from various types of RTI and its complications. Also, many pregnant mothers transmitted it to their offspring due to lack of knowledge. [4]

Socio economic status and education both are very crucial factors to determine women's health. Rather focusing only on disease, it is very important to report and realize these factors which influence reproductive health consequences and women's health seeking behavior at community level. [5]

Menstruating girls feel shame, fear and confusion in school due to gender discriminatory nature of teachers, so they are unable to handle the protection, dignity and privacy of their menstruation. Due to lack of sufficient information, lack of social support, shortage of facilities for water & waste disposal girls are facing many challenges during their menstruation. Columbia University and United Nations Children's Fund (UNICEF) organized the "Menstrual Hygiene Management in Ten" in New York in October 2014 for 10 years to overcome barriers facing by school going girls. [6]

Nearly any one is conscious of the extremely bad reproductive health situation in women. The needs for reproductive health care are broad. Nevertheless, development of reproductive health care is not a trouble-free objective in society. Perspective which is widely accepted and socially integrated is very important for any inculcative initiative in the reproductive health care zone. The perspective should have a better way of understanding the current place of women in society and what they really deserve and desire. [7]

Physiological fact which naturally occurs in adolescent girl and premenopausal women is called as menstruation. Sanitary products used by women and adolescent girls to collect the blood during menstruation which can be changed in privacy according to need is nothing but menstrual hygiene management. It also includes washing the body with help of water & soap, and proper disposal of menstrual management material. [8]

School going girls age between 16 to 20 years from south Africa are found to be affected with sexually transmitted diseases, HIV and teenage pregnancy. Study shows that women suffering from HIV are four times that of men of same age. Not seeking proper care let them untreated which ultimately lead to pelvic inflammatory diseases i.e. PID and high risk of

ectopic pregnancy. Early pregnancy hampers their schooling, proper employment and earning sources.

In the last few years, it is found that incorrect social and behavioral factors lead to dangerous reproductive health outcomes. Due to lack of parental care and low economic condition young women are suffering from many reproductive health issues. Relationship play important role in maintaining proper reproductive health. Problems such as HIV positive partner, difference in age among sexual partners i.e. with a male partner who is older, multiple partners are more prone to disorders of reproductive system. [9]

Intimated partner violence affects mental as well as physical health of women leads to multiple abortions, accidental pregnancy and reduce sexual autonomy. Intimated partners violence leads victim to impaired lifestyle. Anxiety and depression are found to be very common in women suffering from intimated partner violence. There is great impact of violence on pregnant women. There may be risk of neonatal death, pre-term delivery, low birth weight of infants as well as affected breast feeding. Gynecologists noticed that patients are not easily disclosing intimated partner violence and avoid to take treatment for the same. Educating and empowering women can help them to overcome violence. Improving their social and economic status is needful. There is need to protect women from intimated partner violence. [10]

Girls and women having low income are less aware about hygienic practices & lack of suitable materials use for menstrual hygiene management. Menstruation is usually surrounded by shame, silence as well as social prohibition. In religious countries it is found that normal activities and freedom is restricted due to menstruation. Such as, cooking food, performing religious rituals, interacting with people, drinking milk, etc limitations found in many cultures. [11]

Assessment of the awareness regarding reproductive health among women in the rural population and to study their attitudes towards reproductive health is the main motto of the study. Because in India, there is insufficiency of such type of studies, mainly in rural areas. Organizing health education programs and providing health care facilities will improve their reproductive health. We can help women by providing them with educationists, policy makers and health care workers.

Objectives:

1. To analyse the knowledge of women about reproductive health.
2. To assess the awareness of women about reproductive health.
3. To know the attitude of women about reproductive health.

Materials and Methods:

Study design:

Cross-sectional observational study was undertaken in the community. Based on a well-structured questionnaire, personal interviews with women aged 20 to 45 were conducted. Personal interviews were conducted in the Wardha District's Borgaon Village.

Questionnaires administered by an interviewer were used to assess socio-demographic characteristics, knowledge, and awareness of reproductive health in women. Before the interview, the subject gave his or her verbal consent.

Study setting:

Study was conducted in Borgaon Village of Wardha District.

Sample Size:

100

Study Type:

Cross sectional Observational study

Duration of Study:

6 months

Inclusion Criteria:

Women between the ages of 20 years and 45 years are included.

Exclusion Criteria:

Women below the age of 20 years and over the age of 45 years are exempt.

Ethics & dissemination:

Ethics approval was obtained from Institutional Ethics Committee, Mahatma Gandhi Ayurveda College, Hospital & Research Centre, Salod (H), Wardha 442001. (Ref. No. MGACHRC/IEC/2020/13, dated 06/05/2020)

Strength and Limitation:

We tried to educate and aware as much women as possible about reproductive health so that they won't face any problem. If they come across any problem regarding reproductive health in future, will be able to successfully deal with it.

Comment [N6]: This is not strength and limitation of your study .It may be your project plan implementation to solve identified gap by your research. So revise and rewrite it.

Observations & Results

Observation is noted and presented in the form of charts. During the survey, 100 women aged 20 to 45 years were interviewed, and their responses were collected.

Table 1: percentage of respondents according to age

Comment [N7]: Expla table 1 and table 2 by one paragraph.Then Merge table 2 in table 1.

Age	Percentage of respondents
20 – 25 years	30%
26 – 30 years	31%
31 – 35 years	14%
36 – 40 years	15%

41 – 45 years	10%
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Table 1: shows that 30% of women are between 20 - 25 years of age. 31% of women are between 26 - 30 years of age. 14% of women are between 31- 35 years of age. 15% of women are between 36 - 40 years of age. 10% of women are between 41 - 45 years of age.

Table 2: percentage of respondents according to religion

Religion	Percentage of respondents
Hindu	65%
Muslim	13%
Buddhist	22%

Table 2: shows that 65% of women belongs to Hindu religion. 13% of women belongs to Muslim religion. 22% of women belongs to Buddhist religion.

Table 3: Percentage of respondents according to the age of menarche

Age of menarche	Percentage of respondents
Before 12 years	9%
12-15 years	61%
16-19 years	30%
Above 20 years	0%

Table 3: shows that age of menarche of 9% of women were before 12 years. 61% of women were 12 to 15 years. 30% of women were 16 to 19 years. 0% of women were above 20 years. Out of which 57% of women were married and 43% of women were unmarried.

Table 4: Respondent's awareness regarding reproductive health

Sr. No.	Questions	Yes	No
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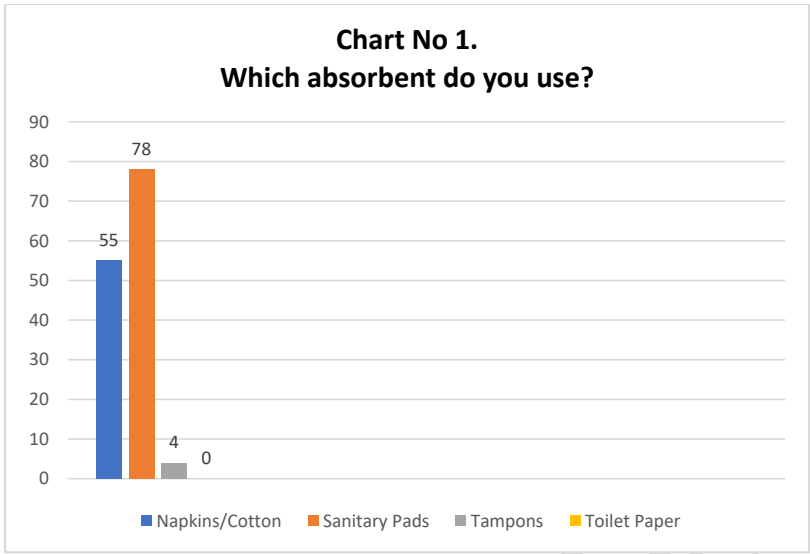
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1.	Do you know about burning sensation during urination?	81%	19%
2.	Do you know about abnormal vaginal discharge?	70%	30%
3.	Do you know about genital injury?	62%	38%
4.	Do you know about Abdo-pelvic pain?	63%	37%
5.	Do you know about itching in genitalia?	79%	21%

Table 5 : Menstrual history

SR. NO.	Questions		
1.	Nature of pain	Painful 60%	Painless 40%
2.	Regularity	Regular 74%	Irregular 26%
3.	No. of days you are menstruating	< 3 days 11%	3- 5 days 63%
		5-7 days 24%	>7 days 2%
4.	Does your menstruation hamper your daily activity?	Yes 54%	No 46%



As per the statistics, **Chart No 1.** Shows that 78% women were use sanitary pads though 55% women were still used napkins & cottons due to lack of awareness, shyness & low economic condition& 4% of women were using tampons. Not a single woman were known about toilet paper.

Comment [N10]: Please refigure your chart as the statistical principle of each bar chart size ,height and distance between the bars.

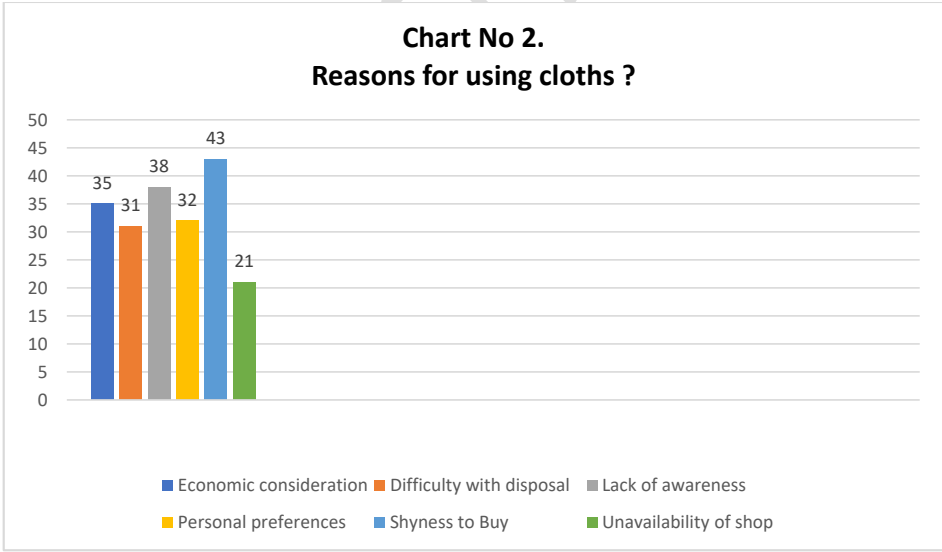


Chart No 2. Shows that 35% of women were using cloths due to low economic condition. 31% women were using it due to difficulty with disposal. It is found that due to lack of awareness 38% of women were using cloths. 32% of women were using cloths because

Comment [N11]: So similar comments as the above Comment N6.

of their personal preferences. 43% of women were using cloths due to shyness to buy & 21% of women were facing problems like unavailability of shop in their locality.

It is found that 83% of women were responded that knowledge of contraception is necessary. 5% of women thought that there is no need of contraceptive knowledge. 12% of women responded may be.

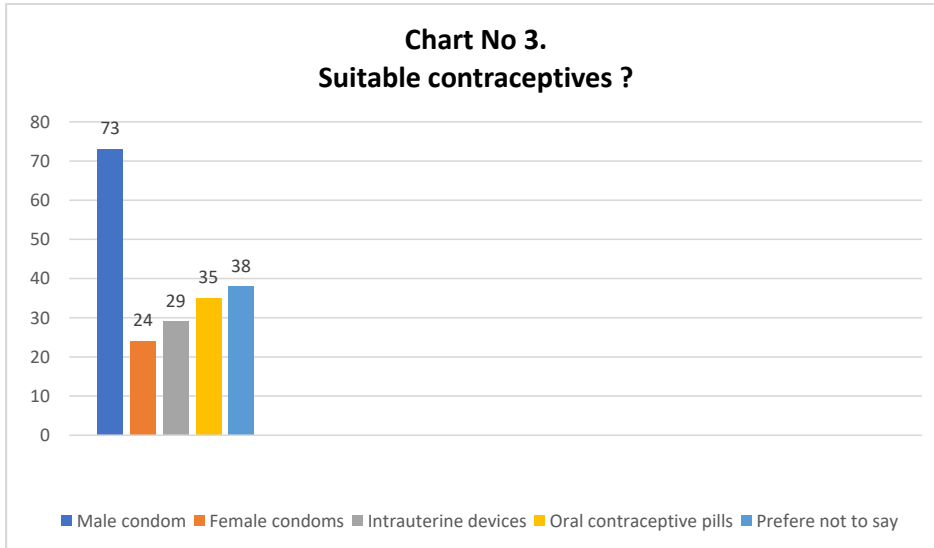


Chart No 3. Shows that 73% women were thought that male condom is suitable contraceptive. Only 24% women were responded to female condom. 29% women were thought that intrauterine devices are the best. 35% of women go for oral contraceptive pills. 38% women were preferred not to say.

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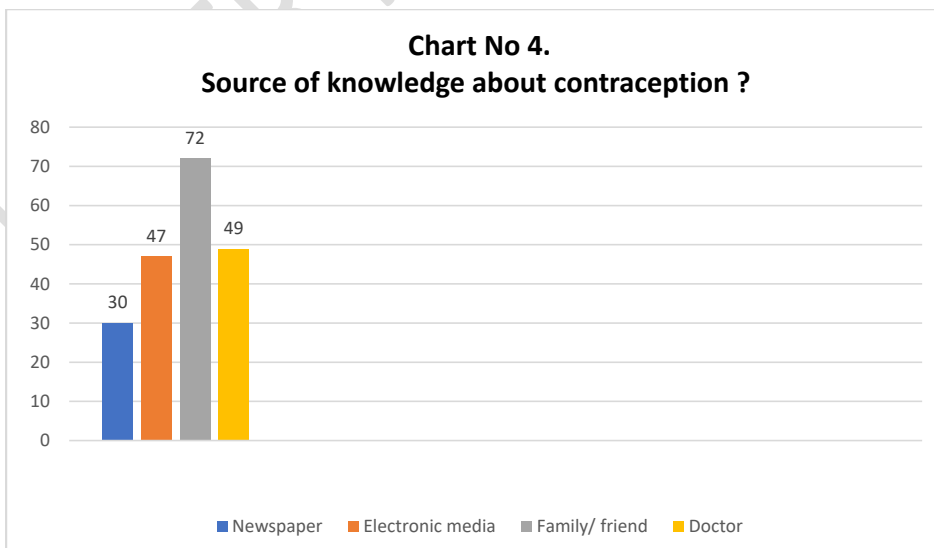


Chart No 4. Shows that 30% women got knowledge of contraception from newspaper. According to 47% women electronics media were good source. It is found that women from village got their maximum knowledge from family & friends due to lack of exposure. 49% of women responded that their source of knowledge were doctors.

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It is observed that 59% of women were preferred to use contraception. 25% of women were not preferred to use contraception. 16% of women responded may be.

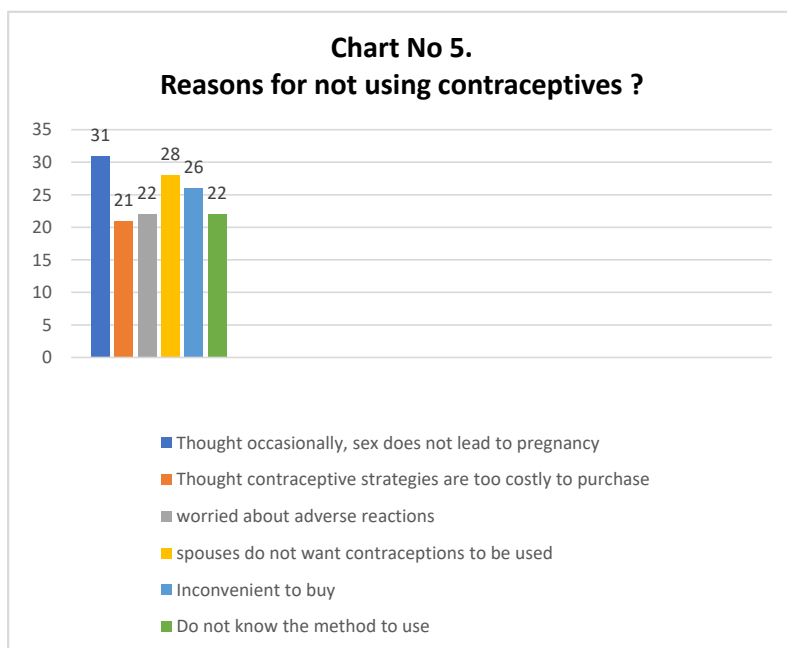


Chart No 5. Shows that 31% of women were thought that occasionally, sex does not lead to pregnancy. 21% of women were thought that contraceptive strategies are too costly to purchase. 22% of women were worried about adverse reactions. 28% women responded that their spouses do not want contraception to be used. 26% of women were responded that contraceptives are inconvenient to buy. 22% of women don't even knew the method to use the contraceptives.

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It is noticed that 71% of women were known about sexually transmitted disease. 19% of women were don't know about sexually transmitted diseases. 10% of women responded may be.

Chart No 6.
Which way can transmit STD's ?

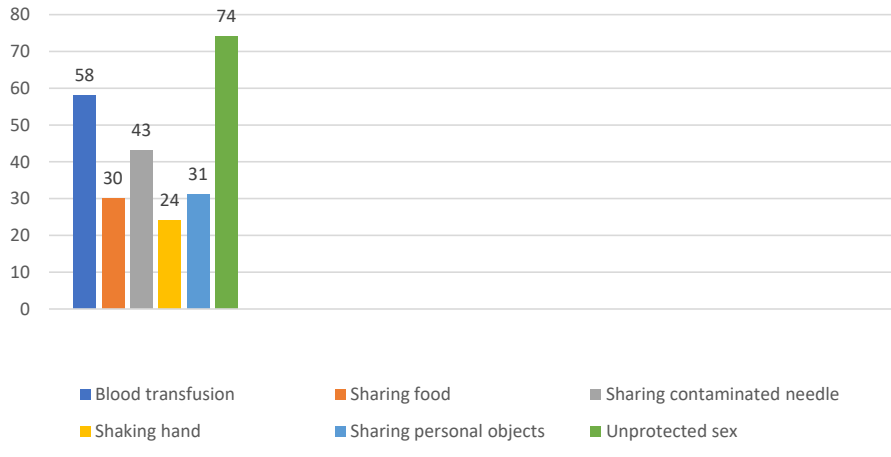


Chart No 6. Shows that 58% of women thought that STD's can be spread through blood transfusion. 30 % of women were thought sharing food can transmit STD's. 43% of women responded to sharing contaminated needles. Shaking hand can transmit STD's were answer of 24% of women. 31% of women thought that sharing personal objects can be the reason behind STD's. 74% of women responded to unprotected sex.

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Chart No 7.
Do you think women need to learn reproductive knowledge?

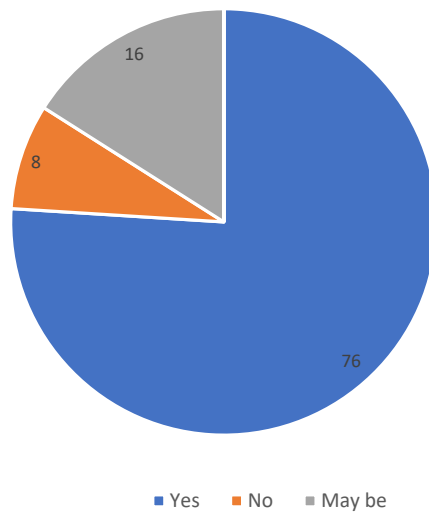


Chart No7. Shows 76% women thought that there is need of learning reproductive knowledge. Still 8 % of women thought that there is no need of learning reproductive knowledge. 16% of women responded may be.

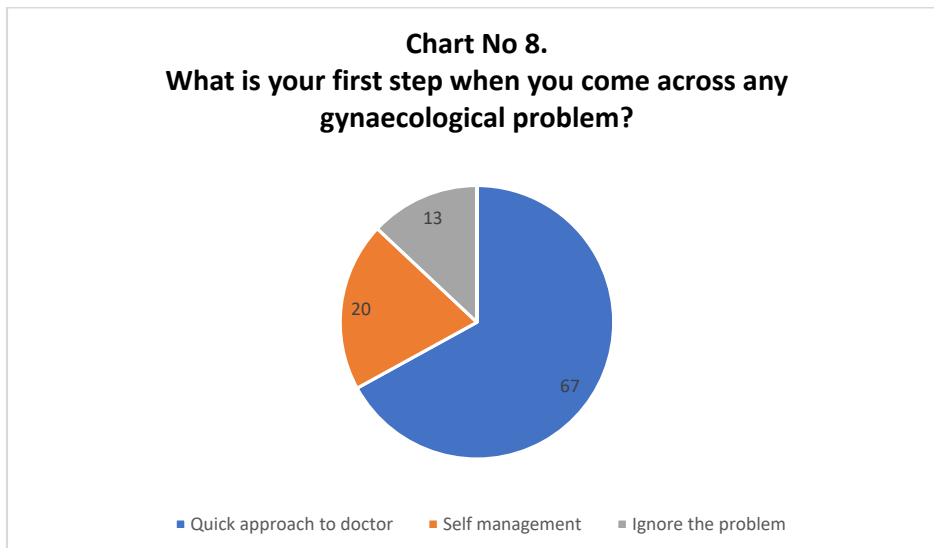


Chart No 8. Shows that when women came across any gynecological problem only 67% of them had quick approach to doctor. 13 % of women ignored the problem. 20% of women were managed by themselves.

Discussion:

This study shows that menstruating women ranged in age from 12 to 19 years, whereas Hatwar, V.'s study revealed that the menstruating girls ranged in age from 12 to 16 years. [12]

In this study, it is found that 73% women were thought that male condom is suitable contraceptive. Only 24% women were responded to female condom. 29% women were thought that intrauterine devices are the best. 35% of women go for oral contraceptive pills. 38% women were preferred not to say. An equivalent study done by Simbar, M. reveals that only 48% of participants were using condoms. [13]

In this study it is stated that 76% women thought that there is need of learning reproductive knowledge. Still 8 % of women thought that there is no need of learning reproductive knowledge. 16% of women responded may be. Study done by Simbar, M. shows that majority of study subjects believed that awareness of reproductive health is beneficial, but they thought that programmes were insufficient.[13]

In this study, it is reported that 78% women were use sanitary pads though 55% women were still used napkins & cottons due to lack of awareness, shyness & low economic condition& 4% of women were using tampons. Not a single woman was known about toilet paper, similar study by Nagaraj showed that only 26.3% of study subjects were using

sanitary pads. This difference might be due to better awareness & availability of sanitary pads in their respective areas. [14]

This study shows that 30% women got knowledge of contraception from newspaper. According to 47% women electronics media were good source. It is found that women from village got their maximum knowledge from family & friends due to lack of exposure. 49% of women responded that their source of knowledge were doctors. Similar study conducted by Abajobir observed that **key** source of knowledge was health practitioners for reproductive health. [15]

Comment [N17]: Change to the

In this study 31% of women were thought that occasionally, sex does not lead to pregnancy. 21% of women were thought that contraceptive strategies are too costly to purchase. 22% of women were worried about side effects. 28% women responded that their spouses do not want contraception to be used. 26% of women were responded that contraceptives are inconvenient to buy. 22% of women don't even know the method to use the contraceptives. Similarly study conducted in east gojjam zone by abajobir, rural adolescents noticed that poor knowledge and peer pressure, husband opposition prevented participants from accessing contraceptive methods. [15]

According to Ayurveda, rasa dhatu i.e. plasma accounts the formation of raja i.e. menstrual blood and the main cause for the vitiation of rasa dhatu is mithya ahara i.e. unwholesome diet. Dieting is trending now a days, this also leads to nutritional deficiency & further contributes in reproductive problems. Recent days, to make food look good and taste better, irrational combinations of food i.e. viruddha ahara are made. This leads to impotency i.e. shandhya as stated by Acharya Charaka. **It is clear that diet & life style of person had great impact on the health of ovum & sperm. Mental stress leads to rasavaha strotodusti which ultimately results in sterility. In 1991, total fertility rate is 3.6 which declines to 2.9 in 2008, this clearly shows that effect of changed life style & diet habits.** Ayurveda recommended good lifestyle practices for maintaining proper reproductive health such as performing yoga & pranayama which gives you peace of mind, panchkarma is an incredibly efficient way of balancing and rejuvenating all body tissues to operate optimally [16]. Many studies on maternal and reproductive health issues have been reported [17-19]. Pusdekar et. al. reflected on rates and risk factors for preterm birth and low birthweight in the global network sites in six low- and low middle-income countries[20]. Bauserman et. al. reported about maternal mortality in six low and lower-middle income countries[21]. Chaudhary et. al. assessed the family planning knowledge, attitude and practice among women of reproductive age from rural area of Central India [22]. Damke et. al. reported on bacterial vaginosis among women of reproductive age using contraceptive methods[23-25]. Unnikrishnan et. al. assessed awareness and uptake of maternal and child health benefit schemes among the women attending a district hospital in coastal South India[24]. Studies on gaps in antenatal care and reproductive health services were reported[26-30].

Comment [N18]: Who was saying this idea, give thereference or remove it.

Comment [N19]: Why you use too old data?change it

Conclusion:

It was concluded that we still need to aware the society about reproductive health of women because whole society should be well known about the measures to be taken and how to act wisely to deal with a woman suffering from any illness regarding reproductive health. Along with personal hygiene, proper disposal of absorbent used is also important.

Comment [N20]: What you dictated here and the references are not coherent with your findings. You did not discuss whether inline or oppose with your finding. So you better revise or remove unnecessary references.

Comment [N21]: Rewrite this part depend only your research finding by two paragraphs from knowledge and attitude parts.

Periodic reproductive health checkup should be recommended to all women. It should be followed by proper treatment of the women.

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Recommendations

Health education is an important factor in improving awareness and practices related to menstruation. Therefore, a properly planned health education needs to be provided to all adolescent girls and women by governmental and non-governmental organizations. In order to crack social inhibitors and empower young teenage girls with proper awareness, all mothers need to be informed about menstruation and menstrual hygiene practices. It is also essential to involve lady teachers in schools for sustained health awareness programs in schools.

Comment [N23]: Change to reproductive age,B/c your study subject is not only mother.

NOTE:

The study highlights the efficacy of "Ayurveda" which is an ancient tradition, used in some parts of India. This ancient concept should be carefully evaluated in the light of modern medical science and can be utilized partially if found suitable.

Comment [N24]: Rewrite it in well organized form by one paragraph at the end of the discussion.

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Comment [N25]: Add the link of some of the reference. Like no 4 and so on

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