

FAMILY PLANNING-

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FAMILY PLANNING

WHO defines family planning as:

"A way of thinking and living that is adopted voluntarily upon the basis of knowledge, attitude and responsible de by individuals and couples, in order to promote the health and welfare of the group and thus contribute effectively to social development of a community".



DEFINITION

Family planning refers to practices help individuals or couples to attain objectives:

- > To avoid unwanted births
- > To bring about wanted births
- > To regulate the intervals between pregi
- To control the time at which births occ relation to the ages of the parents
- To determine the number of children in family



Scope of family planning services

- The proper spacing and limitation of bir
- Advice on sterility
- Education for parent hood
- Sex education
- Screening for pathological conditions re the reproductive system
- Genetic counselling



Scope of family planning services

- Premarital consultation and examina
- Carrying out pregnancy test
- Marriage counselling
- The preparation of couples for the a their first child
- Providing services for unmarried mo
- > Teaching home economics and nutrit
- Providing adoption services



Health aspects of family planning

The principal health outcomes giver WHO are:

Women's Health:

Maternal morbidity, morbidity of wom child bearing age group, nutritional status, preventable complications of pregnancy arabortion

Foetal Health:

Feotal mortality, abnormal developme

Infant and Child health:

Neonatal, infant and preschool mortal health of infant at birth, vulnerability of di



Eligible couples

- An "eligible couple" refers to a currently married couple where in wife is in the reproductive age, whi generally assumed to lie between to of 15 and 45 years.
- These couples are in need of family planning services.
- On an average 2.5 million couples joining the reproductive group eve



Target couples

- "Target couples" are the couple have two to three living children, a family planning was largely directed such couples.
- The definition of target couples ha gradually enlarged to include familione child or even newly married countries with a view to develop acceptance idea of family planning from the eapossible stage.



Couple protection rate (C

- Couple protection rate is an indication the prevalence of contraceptive print in the community.
- It refers to "the percentage of eligical couples effectively protected again birth by one or other approved more of family planning, viz. sterilization, condom or oral pills".



CONTRACEPTIVE METH

- "Preventive methods to help wavoid unwanted pregnancies".
- They include all "temporary" and "permanent" methods.
- There can never be an ideal contra

 that is safe, effective, acceptable, inexpensive, reversible, simple to administer, and requiring simple or medical supervision.



Classification

I-Spacing methods:

- Barrier methods
 Physical methods
 Chemical methods
 Combined methods
- Intrauterine devices
- Hormonal methods
- Post-conceptional methods
- Miscellaneous

2-Terminal methods:

- Male sterilization
- Female sterilization

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BARRIER METHODS

- Barrier or occlusive methods, suitable
 both men and women are available.
- Aim: to prevent live sperm from me the ovum.
- These methods require a high degree motivation on the part of user.
- In general they are less effective than the oral or the loop. They are only e if they are used consistently and care
- Pregnancy rates vary from 2-3 per I 0 women.



A- PHYSICAL METHO

I- CONDOM

- This is considered as the simple space method without side effects and prevent both male and female from sexually transmitted diseases.
- This prevents the semen from being deposited in vagina.
- The effectiveness of a condom may be increased by using it in conjunction versions of the spermicidal jelly inserted in the vaginal intercourse.



Advantages

- Easily Available
- Safe and inexpensive
- Easy to use, do not require medic supervision
- No side effects
- Light, compact and disposable
- Provides protection not only again pregnancy but also against STD



Disadvantages

- It may slip off and tear during inte due to incorrect use
- Interfere with sex sensation locally which some complain while others used to it.



Female Condom

- This is a pouch made of polyurethan which lines the vagina.
- An internal ring in the close end or covers the cervix and an external remains outside the vagina. It is prelubricated with silicon and a sperm need not to be used.
- It is an effective barrier to STD. Fair rate may vary from 5-21 per 100 v



2- DIAPHRAGM

- This is a vaginal barrier.
- It is a shallow cup made of synthet rubber or plastic material. It ranges diameter from 5-10 cm.
- The diaphragm is inserted before some intercourse and remains in place for less than 6 hours after sexual inter
- A spermicidal jelly is always used a with the diaphragm.



Advantages:

Primary advantage is the total abs risks and medical contraindications

Disadvantages:

- Initially a trained person or physic needed to demonstrate insertion
- After delivery it can only be used the involution of uterus is complet
- If left in vagina for extended periodime a remote possibility of toxic s

syndromersmay...occur.



3-VAGINAL SPONGE:

- Sponge soaked in vinegar or olive of used. It is 5 cm x 2.5 cm, saturated spermicidal.
- Failure rate in parous women is 20 100 and in nulliparous about 9-20 women.



B-CHEMICAL METHO

- Before the advent of IUDs and oran contraceptives, spermicides (vagina chemical contraceptives) were wide used.
- > Foams: foam tablets, foam aeroso
- Creams, jellies and pastes: sque from a tube
- > Suppositories: inserted manually
- > Soluble films: C-film inserted ma



Disadvantages

- High failure rate
- Must be used almost immediately intercourse and repeated before e
- Must be introduced in those region vagina where sperms are likely to lead deposited.
- May cause mild irritation or burni besides messiness
- Spermicides are not recommended professional advisers, they are best in conjunction with barrier method



INTRA-UTERINE DEVI

Types:

- Non-medicated or Inert IUD
- Medicated or bioactive IUD
- First generation IUDs: The non medicated or inert
- Second generation IUDs: Copper
- Third generation IUDs: Hormone releasing



a-First Generation IUDs

- These usually comprise of inert or no medicated devices. They appear in dif shapes and sizes-loops, spiral, coils, ri
- Lippes loop: This is the best known most commonly used double S-shape device.
- A plastic material that is non toxic, n tissue reactive, and extremely durable loop has attached thread or tail made nylon, which projects into the vagina insertion.



 This exists in four sizes. A larger size greater anti fertility effect and a love expulsion rate but a higher remove because of side effects like pain and bleeding



b-Second Generation IU

- A new approach was tried in 1970 adding copper to the IUD. The new copper devices are significantly moeffective.
- Multi load and variant of T de Effective life of at least 5 years.
- They can be left in place safely for time, unless specific medical or per reasons call for earlier removal.



Advantages of copper devi

- Low expulsion rate
- Lower incidence of side effects e.g and bleeding
- > Easier to fit even in nulliparous
- > Better tolerated by nullipara
- Increased contraceptive effectiven
- Effective as post coital contracept inserted within 3-5 days of unprote intercourse.



Third Generation IUDs

- These are based on another princi release of hormone.
- a- Progestasert:
- Most commonly used device, which shaped device filled with 3 mcg progesterone (the natural hormon
- It is released daily in uterus and had direct local effect on the uterine litthe cervical mucus and possibly on sperms.



b- Levonorgestrel:

- A potent synthetic steroid, this has effective life of 10 years.
- This is associated with lower mense blood loss and fewer days of bleed than copper devices but are more expensive to be used on wider sca



Mechanism of action of IUDs

- IUD causes a foreign-body reaction uterus causing cellular and biocher changes in the endometrium and ufluids.
- These changes impair the viability gamete and thus reduce its chance fertilization, rather than its implant



Mechanism of Action

- Medicated IUD: Produces other effects that may contribute to their contraceptive action.
- Copper seems to enhance the cell response in the endometrium. It al effects the enzymes in the uterus.
- By altering the biochemical composition of cervical mucus, copper ions may sperm mobility, capacitation and subsequents.



Mechanism of action

- Hormone-releasing devices: In the viscosity of the cervical mucus thereby prevent sperm from enter cervix.
- They also maintain high levels of progesterone in the endometrium thus relatively low levels of oestrog thereby sustaining an endometrium unfavorable to implantation.



Effectiveness

- IUD is one of the most effective reversible contraceptive method.
- The theoretical effectiveness of IU less than that of oral and injectable hormonal contraceptives.
- But since IUD have longer continurates than the hormonal pills or injections, the over all effectiveness IUD and oral contraceptives are all the same in family planning program



Change of IUD

- Inert IUD such as lippes loop may in place as long as required, if there no side effects.
- Copper devices cannot be used indefinitely because copper corroc mineral deposits build up on the co affecting the release of copper ions
- The same applies to hormone rele devices. They have to be replaced periodically.



Advantages

- Simplicity, no complex procedures a involved in insertion
- Insertion takes only few minutes
- Once inserted IUD stays in place as required
- Inexpensive
- Contraceptive effect is reversible by removal of IUD



- Virtually free of systemic metaboli effects associated with hormonal p
- Highest continuation rate
- There is no need for continual more required to take a pill daily or to u barrier method consistently only a act of motivation is required



Contraindications

a-Absolute:

- Suspected pregnancy
- Pelvic inflammatory disease
- > Vaginal bleeding of undiagnosed ae
- Cancer of the cervix, uterus or ad and other pelvic tumours
- Previous ectopic pregnancy



b- Relative:

- Anaemia
- Menorrhagia
- History of PID since last pregnancy
- Purulent cervical discharge
- Distortions of the uterine cavity du congenital malformations, fibroids
- Unmotivated person



An ideal IUD candidate

- > Who has borne at least one child
- > Has no history of pelvic disease
- > Has normal menstrual periods
- ▶ Is willing to check IUD tail
- Has access to follow up and treatnesses potential problems
- ➤ Is in monogamous relationship



Time of insertion

- Although an IUD can be inserted a almost anytime during a woman's reproductive years (except pregna the ideal time is during menstruation within 10 days of the beginning of a menstrual period.
- The insertion can also be done during first week after delivery before the women leaves the hospital (immediately postpartum insertion)



- A convenient time for loop insertion
 8 weeks after delivery (post-puerpinsertion)
- It can also be done after a legally in first trimester abortion.



Follow-up

An important aspect is follow-up vusually neglected.

Objectives:

- To provide motivation and emotio support for the women
- To confirm the presence of the IU
- Diagnose and treat any side effect complications



Side effects and complicat

- Bleeding
- > Pain
- Pelvic infection
- Uterine perforation
- Pregnancy
- Ectopic pregnancy
- Expulsion
- > Fertility after removal
- Cancer and teratogenesis
- Mortality