NCERT/STATE BOARD

CRASH COURSE NEET/CET 2020-21

UNIT VI REPRODUCTION

Chapter 4 (Part I) Reproductive Health

ACCORDING TO WHO

Reproductive Health Means A Total well being in all aspects of Reproduction, Physical, Social & Behavioural.



Population Increases Rapidly – Due to

- 1. Lack of sex education
- 2. Marriage in childhood
- 3. Do not aware about contraceptive method



India has amongst 1st country in the world to initiate <u>Action Plans & Programmes at a NATIONAL LEVEL</u> to attain total reproductive health as a social goal.

These plan is called **Family Planning** which initiated in **1951**

Recently Known as - RCH (Reproductive Child & Health care)

Contraceptive Method

- Our Gonads are well functioning & they produce gametes, but avoid to meeting of Gametes is called Contraceptive Method.
- Male testis sperm & Female ovary ovum

• IDEAL CONTRACEPTIVE:

- 1. User friendly
- 2. Easily available
- 3. Effective
- 4. Reversible
- 5. Least or no S/E

Contraceptive Method Are:

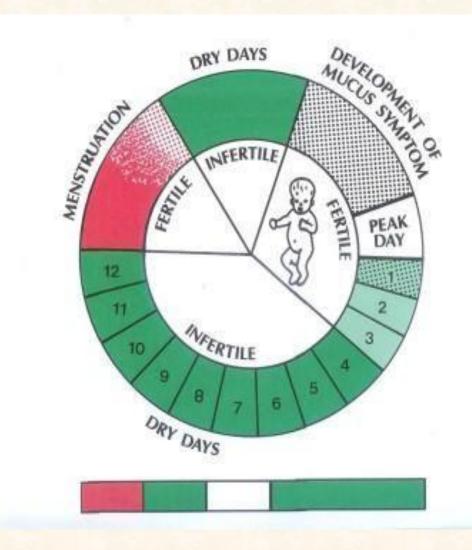
- 1. Natural & Traditional Method2. Barrier Method
 - 3. Intrauterine Devices (IUD)
- 4. Oral contraceptive pills (OCP)
 - 5. Injection & Implants
 - 6. Surgical Method

1. Natural / Traditional Method

No chemical & Devices are used

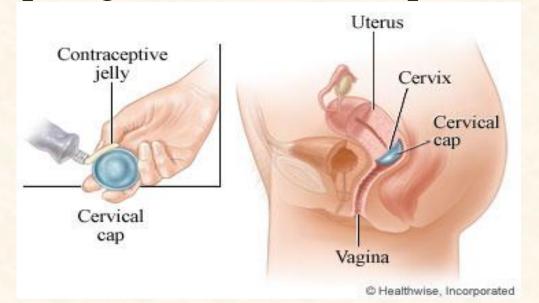
IT CONSIST OF:

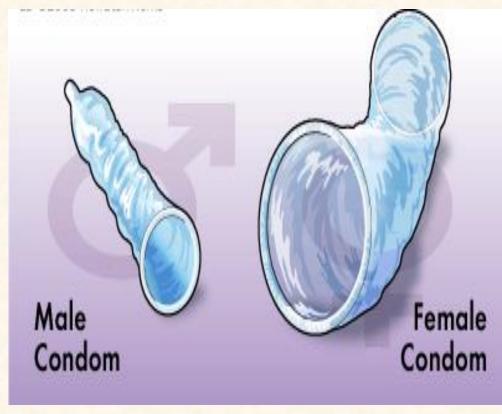
- A. Periodic Abstinence
- B. Withdrawal or Coitus Interrupts
- C. Lactational Amenorrhea (Absent of MC)
- D. Temperature Surge



2. Barrier Method

- Prevent fertilization by creating barrier between male & female gametes.
- a. Male Condom (Dr. Condom)
- b. Female Condom(Femidom)
- c. Diaphragms / Cervical Cups / Vaults





3. Intra uterine Devices (IUD)

• These devices are inserted by Doctor in uterus through Vagina.

Non Medicated IUD

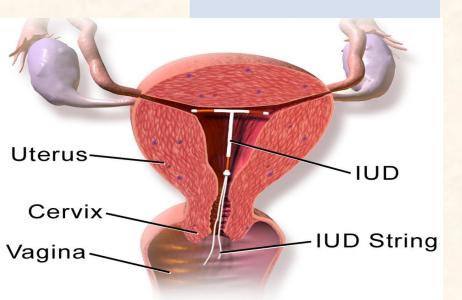
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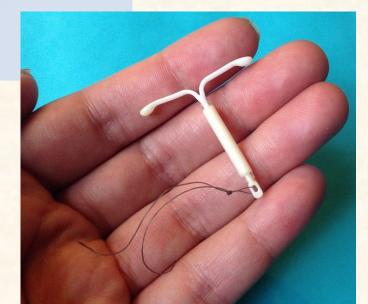
Copper Releasing IUD

- CU T
- CU 7
- Multiloaded 375

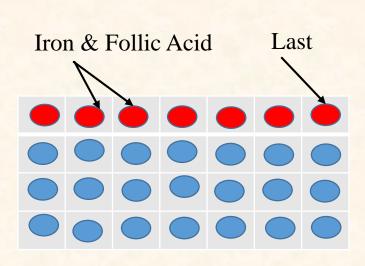
Hormone Releasing IUD

- Progesteasert
- LNG 20



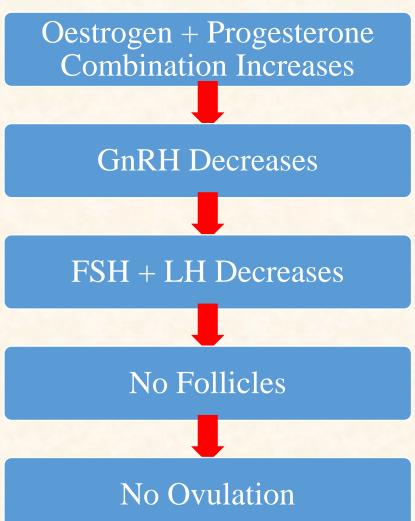


4. Oral Contraceptive Pills (OCP)



1st Day to 28 Day Tablet





e.g. Mala – D,
Mala – N,
Saheli – CDRI (Once
a week, non Steroid)

4. Oral Contraceptive Pills (OCP)

A. Mala – **D** & Mala – **N**:

✓It taken daily for period of 21 Days of Menstrual

Cycle.



B. Saheli:

- ✓It is New Oral Contraceptive Pills for Female developed by scientist at CENTRAL DRUG RESEARCH INSTITUTE (CDRI) LUCKNOW INDIA.
- ✓ It is non Steroidal Pills FAT PRODUCTION Decreases.

✓It taken as – "Once a week a tablets", with few side effect &

high contain contraceptive value.



C. Morning After Pills (MAP):

- ✓ It is Aborting Agents & it has RU 486 (Mifepristone) an anti progesterone so, it taken with 3 Days of unprotected sex.
- ✓ It prevents implantation.
- ✓ It is also known as progesterone only pills.



5. Injection & Implants:

• This is Matchstick like structure which implant under skin.

- It is combination of E + P.
- Mode of action is very similar to pills.



6. Surgical Method / Sterilization:

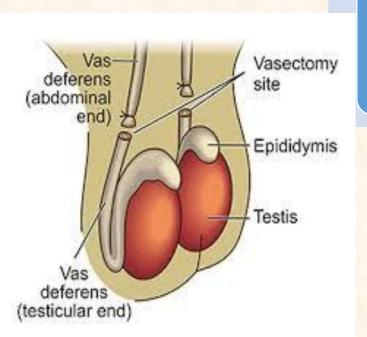
• Permanent method, block the gamete transport, hence prevent fertilization.

VASECTOMY

Vas
deference
Cut & Tied

TUBECTOMY

Fallopian tube Cut & Tied





- 1. Tubectomy a method of fertilization in which.
 - a. Small part of Fallopian tube is Removed or Tied up
 - b. Ovaries are removed
 - c. Small part of Vas Deference is removed or Tied up
 - d. Uterus is removed surgically
- 2. Which one of the following is the most widely accepted method of contraception in INDIA at present.
 - a. Cervical Cap b. Tubectomy c. Diaphragms d. IUD
- 3. The most important components of the Oral Contraceptive Pills is
 - a. Thyroxin b. LH c. Progesterone d. Growth Hormone

MTP (Medical Termination of Pregnancy)

- It is voluntary or intentional termination of pregnancy before full term is known as MTP or Induce Abortion.
- Government of India legalised MTP in 1971.
- About 45 to 50 million MTPs are done in year in whole world.
- MTP has significant role in decreasing the population, but is NOT meant for this purpose.
- MTP is safe up to 12 weeks (The 1st trimester) of pregnancy.
- Second trimester Risky.

METHOD

CHEMICAL METHOD

- RU 486
- Mifepristone
- MTP Kit

1 Mifepristone + 4 Misoprostol .



Early (1st Trimester)

- Suction Aspiration
- Dilation
- "Curettage hook" inserted in uterus which remove foetal parts.

SURGICAL METHOD

Up to 18 Week

- Salt injection
- Dilation & Evacuation

RISKY

Late

Pregnancy

- Prostaglandin injection
- Dilation & Curettage

STD (Sexually Transmitted Disease) VD (Venereal Disease) RTI (Reproductive Tract Infection)

- Disease or infection which are transmitted through sexual intercourse.
- Hepatitis B, is also includes in STDs

Examples of STDs:

- a. Gonorrhoea Neisseria gonorrhoea
- b. Trichomoniasis Trichomonas Vaginalis
- c. AIDS HIV
- d. Syphilis Treponema Pallidum
- e. Hepatitis B Hepatitis B virus

SYMPTOMS OF STDs

Primary Symptoms

- Itching
- Fluid Discharge
- Slight Pain
- Swelling
- Infected Female may be often Asymptomatic & Hence may Remain undetected for long time.

Secondary Symptoms

- PID (Pelvic Inflammatory Disease)
- Abortion
- Still Birth
- Infertility
- Cancer of Reproductive Tract

- ❖Most Vulnerable Age Group − 15 − 24 years.
- ❖Mostly STDs are Curable Except AIDS, Genital Herpes, Hep – B.



AVOIDING STDs

- 1. Avoid sex with unknown partners / multiple partners.
- 2. Use condom during sex.
- 3. Encase of any doubt, Diagnosed the disease by the help of doctors.

Infertility

• FAILURE TO PRODUCE CHILDREN EVEN AFTER 1 YEAR OF UNPROTECTED SEXUAL ACTIVITY.

CAUSES OF INFERTILITY

MALE

- Azoospermia No sperm count
- Ejaculation Failure
- Testes injury
- Hormonal problems
- Oligospermia
- Low sperm count
- Abnormal sperm
- Premature ejaculation

FEMALE

- Failure to ovulate due to low LH
- No follicular development due to low FSH
- Bx Clomiphene Citrate
- Damage to Oviducts
- TB of Fallopian tube

In India, Female is Blamed to Having Childless but, it is NOT True, the fertility also arises in MALE Partners.

ART (Assisted Reproductive Technologies)

A. IVF – (In Vitro Fertilization):

- ✓ Fertilization outside the body.
- ✓ Condition is very similar to the Test Tube baby.

ZIFT

- Zygote intra fallopian Tube Transfer
- Zygote up to 8
 Blastomere
 stage is
 Transferred into
 Fallopian tube.

IUT

- Intra Uterine Transfer.
- More than 8
 Blastomere
 Embryo
 Transfer into
 Uterus.

INVITRO FERTILIZATION & EMBRYO TRANSFER

- If a female is able to produce ovum but can not Bear Child due to Hormonal Imbalance.
- Normal Intercourse, i.e. Fertilization inside the body of female & embryo transferred to the other female.

GIFT (Gamete Intra Fallopian Transfer)

- Ovum collected from donor & transfer into (Recipient).
- Recipient Unable to produce ova but can provide suitable conditions for fertilization & further development.

ICSI – (Intra Cytoplasmic Sperm Injection):

- Sperm is directly injected into ovum.
- Ovum is immobilised by Glass Pipetted.

- 1. Which of the following is not sexually transmitted disease.
 - a. Trichomoniasis b. Encephalitis c. Syphilis d. AIDS
- 2. A childless couple can be assisted to have a child through.
 - a. Technique called GIFT
 - b. Gamete internal fertilization & Transfer
 - c. Germ cell internal fallopian transfer
 - d. Gamete inseminated fallopian transfer
 - e. Gamete intra fallopian transfer
- 3. The stage transferred into the uterus after induced fertilization of ovum in the laboratory is.
 - a. Embryo at 4 Blastomere stage
 - b. Embryo at 2 Blastomere stage
 - c. Morula
 - d. Zygote
- 4. MTP is considered safe up to how many weeks of pregnancy
 - a. 8 Weeks b. 12 Weeks c. 18 Weeks d. 6 Weeks