

IMPOTENCE

- * Potency - Ability to perform sexual act.
- * Impotency - Inability of a person to perform sexual intercourse.
- * Sterility - Inability to beget (produce) a child / inability to conceive a child.
- * Frigidity - Inability of women to have sexual arousal pattern.

* Civil Cases

- ⇒ Divorce
- ⇒ Nullity of Marriage
- ⇒ Disputed Paternity
- ⇒ Adultery → Impotence can be raised as defence in Adultery
- ⇒ Claim for damage → Impotency due to harm can claim compensation

* Criminal Cases

- ⇒ Adultery
- ⇒ Rape / Sexual Assault
- ⇒ Unnatural Sexual Offence
- ⇒ Blackmailing
- ⇒ Defamation

* Causes of Impotence & Sterility

1. Age group - extreme age group
2. Congenital & Acquired.
 - Absence of penis
 - Double penis
 - Penis adherent to scrotum.
 - Rudimentary penis

- Intersexuality
- hypospadias & epispadias
- Traumatic amputation of penis
- Surgical Removal of testicle after puberty

3. Endocrinology - Diabetic nephropathy
Addison
Hypopituitarism
Hypothyroidism
Cushing

4. Chromosomal disorder - Klinefelter
- Turner
- Intersex
- Eunuchoidism

5. CNS - Injury to L4-L5 segment
- Tabes dorsalis
- Hemiplegia/Paraplegia
- Spina bifida

6. Drugs -> Cannabis, opiod, alcohol
-> H₂ receptor antagonist, betablocker
-> Estrogen therapy in carcinoma prostate

7. Psychological.

- > Guilt sense - religious, orthodoxy, anxiety depression
- > Honeymoon impotence
- > Aversian - developed in female.
- > Quadhanc -> Impotent to wife, potent to all other.
- > Absence of Nocturnal penile tumescence.
- > Vaginismus -> spastic contraction in vaginal wall when penetrated.
- > Electra complex -> like Quadhanc (father)

8. Local disease → disease of penis, testis, epididymis
→ gonorrhea like acute disease
→ Large hemia, large hydrocele, phymosis
paraphimosis

SEXUAL OFFENCE

* Any offence related to sexual Act.

* Classification

- 1) Natural Sexual Offence → Rape, Incest.
- 2) Unnatural Sexual Offence → Bestiality Sodomy.
- 3) Sexual Pervertion → Sadism, masochism
- Sexual Related Offence - Taking Sexual Abuse.

* Rape

⇒ Sec 375 IPC - Any man is said to commit rape on a woman if

(i) Penetrate his penis → into vagina, mouth, urethra, anus with him or other person

(ii) Insert any object or part of his body

(iii) Manipulate for the purpose of penetration

- Against her will

- Without her consent.

- with consent, if underage.

- with consent under alcohol

- with consent if mentally abnormal

- with consent if unable to communicate (blind, deaf)

(iv) Applies his mouth to vagina, urethra or anus

⇒ Punishment - Sec 376 IPC → 7 yrs may extend to life & fine

EXAMINATION OF RAPE VICTIM

Objective:

- ⇒ To treat victim for physical & mental injury
- ⇒ To corroborate history with finding.
- ⇒ To collect evidence and present it in court.

General Examination

- ⇒ Examination should be carried out after requisition from investigating police officer
- ⇒ Written witness informed consent is taken.
- ⇒ Examination should be carried out without any delay.
- ⇒ Victim should be identified by escorting police officer
- ⇒ Preliminary history taking
 - Age
 - Occupation
 - Father, Mother name
 - Address
 - Marital Status
 - Height, Weight

a) Brief History of Incident

- b) Whether she knows the accused person
- c) Whether 3 or more people involved.
- d) Whether the influence of alcohol or any drugs.
- e) Whether resisted attack.
- f) Whether condom used or not
- g) Whether ejaculated

Female should be examined when she is menstruating
should be examined after completion.
Age determined by Height & Weight-

Emotional Status is noted (excited, restless, depressed, noncooperative)
The gait should be noted. Gait noted is guarded gait.
(victim walking with pain & slow pace)

Examination proper

- Cloths * Victim asked to undress herself
- * The cloth play important role in case of examination of rape victim
- * cloth should be looked out for stain (seminal, mud, blood)
- * Looked for tear, cut, loss of button.
- Clothes are preserved after drying in closed environment.
& wrapping in paper & sent to forensic laboratory.
sterile bags

General Examination

- * Vitals recorded → BP, RR, pulse, temp etc.
- * Injury noted & photographed.
- * Injury seen in
 - a) mouth & face region
 - b) wrist & arm
 - c) Back region
 - d) Breast
 - e) Genital & thigh.

* Genital Injuries may be absent in

a) when female is under influence of alcohol.

b) Resistance offered by female is overpowered; many people involved

c) Delay in reporting the incident

LOCAL EXAMINATION

- * position of victim - Lithotomy position
victim should lie down with her leg drawn up & widely apart
- * examination should be carried out when there is sufficient amount of time.
- * Labia (minora & major) - may show Abrasion, bruises & laceration seen and edematous.
- * Hymen - Ruptured posterior
Ruptured Usually taken place in 6'o clock followed by b/w 5 & 7'o clock. followed by 4 & 8'o clock.
 - margin of hymen red & bleed on touch.
 - Instrument used to examine - Hymenoscoper
Glaister-keen globe - ~~sharp~~ glass rod & small globe at tip.
Choli's catheter
- * Fourchette, Fossa navicularis, perineal commissure ruptured.
- * vaginal introitus edematous
- * vaginal canal - Injuries can be seen, most commonly associated with injury bruises
 - Bruises seen in anterior & posterior vaginal wall
 - Bruises seen in lower third of anterior & upper $\frac{1}{3}$ rd of posterior vaginal wall.
- * Perineum - Ruptured (especially children)
- * Vaginal wall - mild trauma/severe laceration.

EXAMINATION OF ACCUSED PERSON.

- * should be carried out after victim examination
- * should be conducted without delay
- * person should be identified by escorting police officer/person who has brought him
- * Examination should be carried out after obtaining consent when brought by m.m.
- * Preliminary life - name age occupation father & mother name
- * Any medical/significant past history, surgical cases or whether person has consenting sexual intercourse for past 24 hrs
- * mental status noted.

* CLOTHES → Looked for blood stain
→ foreign hair
→ dried & wrapped in paper bag sent to forensic lab.

* Injury - should be photographed & noticed.

* LOCAL EXAMINATION

- ⇒ development & presence of genital organ.
- ⇒ Injury over genital organ (Abrasion, bruises, laceration)
- ⇒ stain - Blood, seminal, mud over genital region.
- * papanicolaou's staining - Genital organ is washed with saline & stained.
 - presence of vaginal & cervical cell - indicate contact with male & female.
- * Filter paper test - Filter paper is rubbed over genital organ. & exposed to iodine, filter paper turns brown due to glycogen content present in vaginal cell.

- * SMEGMA - cheesy secretion made up of desquamated epithelial cell present towards coronal glands.
- They are completely rubbed off after complete sexual penetration
 - takes about 24 hours to collect back.
 - presence/Absence of smegma give broad idea of sexual penetration.

INCEST

* Definition: Sexual Intercourse by a man with a woman who is closely related to him by blood

* common b/w father & daughter
mother & son.
Brother & Sister.

* Circumstances → Family disorganisation
→ Low socioeconomic.
→ low morality
→ Alcoholism
→ Lack of parental supervision
→ Social acceptability of intrafamilial marriage

* In India incest is not a crime
punishable in UK & Romania.

SODOMY

* anal intercourse with another man or woman
* also called buggery

* ~~Any degree of~~ Legal point

⇒ Any degree of penetration is offence

⇒ if passive agent is female & no consent then it is rape.

⇒ if " " & below 18, whether with or without consent is rape.

⇒ children → POSCO

⇒ if both above 18 yrs & consent, then no crime.

- * pedophilia - among homosexual interested in child.
- gerontophilia - " " " " in adult.

* EXAMINATION OF PASSIVE AGENT

- * similar to examination of rape victim
- * victim bowel habit, usage of enema, previous anal intercourse
- * History → Date, time, place of incident.
 - one / more person involved.
 - Alcohol usage, lubricant
 - ejaculation after act.
 - defecation after act.
 - whether person changed cloth or bath.
- * Informed Consent taken
- * cloths are examined to look for blood stain, seminal stain, fecal stain, ^{dried} wrapped in paper bag & sent to lab
- * Injuries - over back & buttock region. - size, shape, location

* ANAL EXAMINATION

- examined in knee - elbow position
- ⇒ a) Linear abrasion from anal margin to anus
- b) in sudden violence triangular bruised tear at posterior quadrant of anus
- anal intercourse from anterior position may cause tear in anterior quadrant of anus
- c) anal muscle dilated, irritable, tender to touch
- d) Loss of elasticity of anal muscle
- e) Blood stains around anus & perineum.
- f) pain during walking & defecation
- g) Lubricant, seminal fluid, pubic hair,
- h) Fecal stain / matter around anal region.

1) Venereal infection found at anus recovered from rectal swab

HABITUAL PASSIVE AGENT

- shaving of anal hair
- skin surrounding anus will be smooth, extending to anal canal
- muscle of anus loose then tone & does not contract or pinching
- loss of elasticity of anal muscle.
- anal scar & fissure
- depression of buttock toward anus → funnel shaped.

→ LATERAL BUTTOCK TRACTION TEST

- Thumb placed on either side of anus
- traction applied laterally.

normal
↓
contraction of anus

Habitual
Relaxation of anal sphincter.

→ condyloma lata → syphilis 2°

SPECIMEN COLLECTED → Blood, urine, pubic hair, Anal & Perianal swab
Nail clipping.

EXAMINATION OF ACTIVE AGENT.

→ same as accused of rape (General steps)

→ fecal smell & skin over penis

→ injuries - abrasion over perineum, glans penis, shaft of penis with redness & swelling.

→ Bloodstain, foreign body on coronal sulcus

→ if habitual active → penis contracted at some distance from glans (Rambrohn)

LESBIANISM

* Female homosexuality is called lesbianism.

* sexual gratification → kissing, manipulation of breast & genitalia
cunnilingus

* Incidence → Lad prisms, Ladishortels, nymphomaniacs

* Medicolegal → not crime in India if above 18.
→ If < 18 → POSCO

* Lesbians are morbidly jealous → may culminate murder or suicide.

* External genitalia has scratch mark

BESTIALITY

* Zoophilia

* sexual intercourse by human with an animal

* criminal offence

* animal used → calves, sheep, dog, chicken, duck.

* seen in person with mental abnormality

* Both animal & accused is examined.

* Accused → Animal faeces, vaginal insertion in genital.
→ Animal hair

→ stain of animal blood

→ violent mark by animal.

* Animal → human sperm in vagina

→ human hair at genitalia

→ Abrasion & laceration in genitalia

→ gonorrhoeal discharge from animal.

SADISM

- * Type of Sexual Perversion
- * Sexual gratification obtained by inflicting pain upon the partner
- * person can beat hit, stab, burn the partner
- * name derived from Marquis de Sade

MASOCHISM * Type of sexual perversion

- * sexual gratification obtained by inflicting pain upon himself by the partner
- * Name derived from Leopold Von Sacher Masoch.

LUSTMURDER * extreme form of Sadism

- * person get sexual gratification by killing the other person

NECROPHILIA * type of Sexual p

- * sexual gratification by having sexual intercourse with dead body
- stimulus → fresh body, foul smell, no opposition

NECROPHAGIA * type of sexual perversion

- * sexual gratification by licking & eating flesh of body.

Both Necrophilia & Necrophagia are punishable with 1 year prison & fine.

TRANSVETISM

- * Type of Sexual Perversion
- * Sexual gratification obtained by using cloth of Opposite sex.
- * person can accused by robbery
- * also called Eonism.

FETICHISM * type of sexual perversion

- * sexual gratification by using object of opposite sex.
cloth, undergarment

FROTTEURISM

- * type of sexual Perversion
- * sexual gratification by rubbing his private part against female body.

EXHIBITIONISM * type of Sexual perversion

- * willful exposure of genitalia in public place to stranger
- * ends in masturbation
- * punishable offence with imprisonment upto 3 months & fine

Seminal Fluid

* Indication → criminal case (Rape, attempted rape, battery)
- civil - Infertility disputed paternity

* Features → Greenish-yellow in colour.
→ Jelly like material, characteristic odour.
- 2-5 mL with 60 million sperm - 90% motile.
- contain fructose, protein & enzyme.
- Seminal fluid - alkaline pH - 7.4

* Collection - From vagina is pipetted out / collected with swab
- dried stains are collected by scraping with the clean blunt object.
- cloth containing seminal stain - cut, dried, preserved
- pubic hair - plucked & preserved.

* Physical → Greenish-white / Yellow white - with irregular outline.
→ examination under UV light - bluish white colour.

* Chemical

⇒ Florence test - stain extracted placed on a glass slide and a cover slip is applied
- Drop of Florence reagent allowed to run under cover
- It contains KI, I & water
- Formation of dark brown crystal.
- Needle / Rhomboid shape - suggestive of seminal fluid.

⇒ Barboresco test

- stain extracted place over glass slide & cover slip applied
- picric acid (Aqueous / alcoholic soln) is allowed to pour over cover slip.
- formation of yellowish crystal - Rhomboidal.

Acid phosphatase - SF contain 500-1000 times greater acid phosphate than any other body fluid

Creatine phosphatase → Semen contain higher concentration of CPK.

Immunological Method (Test)

presence of PSA (prostate specific antigen) mAb 4 E6 (monoclonal ab 4 E6) suggestive of SF

FISH (Fluorescent in situ hybridization) - Detection of male epithelial cell in post coital vagina, suggestive of SF

Microscopic Examination:

- * Add a drop of SF on glass slide & add a drop of normal saline
- * place a coverslip
- * dry it in open air
- * stain with methylene blue for 15-20 min
- * Counterstain with conin for 1 or 2 min
- * Examine it under microscope

Motility Examination of Sperms

* Add a drop of SF and add drop of normal saline and place the coverslip.

* 80% of Sperms are motile in 3hrs

* 50% are motile within 8hrs

* 10% motile within 10hrs

ABORTION.

* premature expulsion / extraction of child at any time before delivery

* 2 type

- 1) Natural
 - spontaneous - congenital abnormality, severe hypertension
 - Accidental - Fall, injury to abdomen

- a) Artificial - Therapeutic abortion done to female patient
- Criminally - done criminally in teenage

* Medical Termination of Pregnancy Act - 1971

⇒ legalise abortion & reduce mortality & morbidity rate in pregnant women due to complication

⇒ Indicate

- 1) Therapeutic → when continuation of pregnancy is danger to life of the patient physically/mentally
→ congenital abnormality

- 2) EUGENIC GROUND → child to be born with physical or mental abnormality as serious to be handicapped or chromosomal abnormality, ectopic, Downs

- 3) HUMANITARIAN GROUND → pregnancy due to rape or intercourse with mentally ill child

- 4) SOCIAL GROUND → failure of contraceptive device

- 5) ENVIRONMENT GROUND → economic factor
→ low spacing b/w child.

⇒ Not terminated until consent from parent if below 18yr or mentally ill

⇒ if above 18 consent of pregnant lady is required
if married no permission of husband required

Rules

- * 1) MTP carried out by ^{registered, qualified} medical practitioner with MD/DSO (RQMP)
- 2) RQMP should have assisted or conducted 25 cases in which 5 are done independently in recognised institution & gets a certificate from chief medical officer of district.
- 3) Carried out in govt/private hospital which has permission from chief medical officer of district & records are maintained.
- 4) Confidentiality maintained, in case confidentiality not maintained doctor could be punished for a fine of 1000 rupees.
- 5) In case of emergency, MTP could be conducted by a qualified by registered medical practitioner who doesn't have experience in conducting MTP or even in a hospital which doesn't have the ~~experience~~ facility in conducting MTP.
- 6) If duration of pregnancy < 12 weeks $\rightarrow$ MTP can be done by 1. medical practitioner
if 11. 12-20 weeks $\rightarrow$ advice of two medical practitioners
if emergency & b/w 12-20 or over 20 can be done by single medical practitioner
- 7) In case MTP has been conducted by unqualified doctor or conducted in non facility hospital unless emergency can be punished for 2 yrs - 5 yrs with a fine

MTP Amendment 2021

- * Contraceptive failure also include unmarried women
- * If duration 12-20 $\rightarrow$ single opinion of medical practitioner
- if duration 20-24 - opinion from 2 doctors
- * Breach of Confidentiality will account for fine & imprisonment

METHOD OF CRIMINAL ABORTION

- * 3 methods →
- I) Abortifacient drug
 - II) General violence
 - III) Local violence

I Abortifacient drugs →

- 1) Drugs acting on uterus
- 2) Drugs acting on GIT tract
- 3) Drugs acting on Genitourinary
- 4) Drugs causing poisonous effect on body.

1) Drugs acting on uterus

(i) Ecbolics → ↑ uterine contraction

→ will not dilate cervical membrane

→ eg: Quinine

(ii) Emmenagogues → ↑ menstrual blood flow

→ embryo expelled

→ eg: Sanguinaria, estrogen, safin, borax

2) Drugs acting on Genitourinary tract

drug → irritation of GIT → Uterine contraction → Abortifacient

eg: KMnO_4 , Terepentine, cantharides

3) Drugs acting on GIT

drugs → irritation to GIT → Uterine contraction → Abortifacient

eg: Castor oil, Croton oil, senna

4) Drugs causing poisoning effect

eg: Arsenic, Hg, Pb, Cu

II General Violence.

→ violent exercising, Horse riding, Cycling, Heavy lifting, alternate Hot & Cold water bath.

III. LOCAL VIOLENCE

(i) Cupping → mug placed mouth downward on hypogastri
↓
vacuum created.

↓
mouth tightly held on abdominal wall.

↓
mug slowly raised.

↓
placental separation

(ii) Hugginson's syringe → inject soap, water, lysol, cresol, Arpentine formalin into uterus

→ death due to air/fat embolism

(iii) Rupture of Membrane → membrane rupture using pointed object
→ pen, pencil, screwdriver

→ Rupture of sac → Uterine contraction → Abortion

(iv) Abortion Stick. → wooden stick with cloth/cotton soaked with juice of Calotropis, Theriaca

→ stick placed in vaginal wall until contraction

→ Complication → Inflammation & sloughing.

→ Sepsis

→ perforation of Uterus & peritonitis

→ death.

(v) Electricity → Negative & Positive wire placed on vagina & low voltage current passed → Uterine contraction

Fuck you

Abortion

Complication → electrical injury & death

(vi) Syringe Aspiration → early weeks of pregnancy
→ syringe through external os & aspiration of content.

(vii) Dilatation of Cervix

- Branch of Laminaria tent & Slippery elm bark are used
& paste in vagina until dilatation of cervix.

- Complication → Infection → Death

(viii) Abortion Paste → paste of As, Hg, Pb applied in Vagina
complication → systemic absorption → death.

(ix) Uterus Paste → paste of Iodine & Thymol or mercury

→ cause irritation & separation of placenta

→ cause necrosis & infection of uterine wall, septicaemia & death.

(x) Air insufflation - Air introduced into vagina via syringe

Reg Air → Uterine Contractions → Abortion

Complication → Air embolism & Death.

COMPLICATION OF CRIMINAL ABORTION

Immediate

- ⇒ Vasovagal shock
- ⇒ perforation & hemorrhage
- ⇒ laceration
- ⇒ Air/Fat embolism
- ⇒ Amniotic fluid embolism

Delayed

- ⇒ Cervical necrosis
- ⇒ Salpingitis
- ⇒ Peritonitis
- ⇒ Septicemia
- ⇒ Oophoritis
- ⇒ Tetanus
- ⇒ Pneumonia

Late

- ⇒ Renal failure
- ⇒ Hepatic failure
- Jaundice
- ⇒ Pulmonary thromboembolism

INFANTICIDE → Killing of Infant.

FOETICIDE → " foetus anytime before birth.

FILICIDE - " child by his/her parent

NEONATICIDE " Neonate.

Type of Birth $\begin{cases} \text{Still birth} \\ \text{Live birth} \\ \text{Death birth.} \end{cases}$