

Anejaculation

Webinar

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- * LTM Med College & LTM Gen Hosp
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- Bhatia Hospital
- Prince Aly Khan Hospital

Inability to ejaculate
besides causing
infertility, can be very
frustrating for a man,
his partner & their
doctor

ERECTION



ORGASM

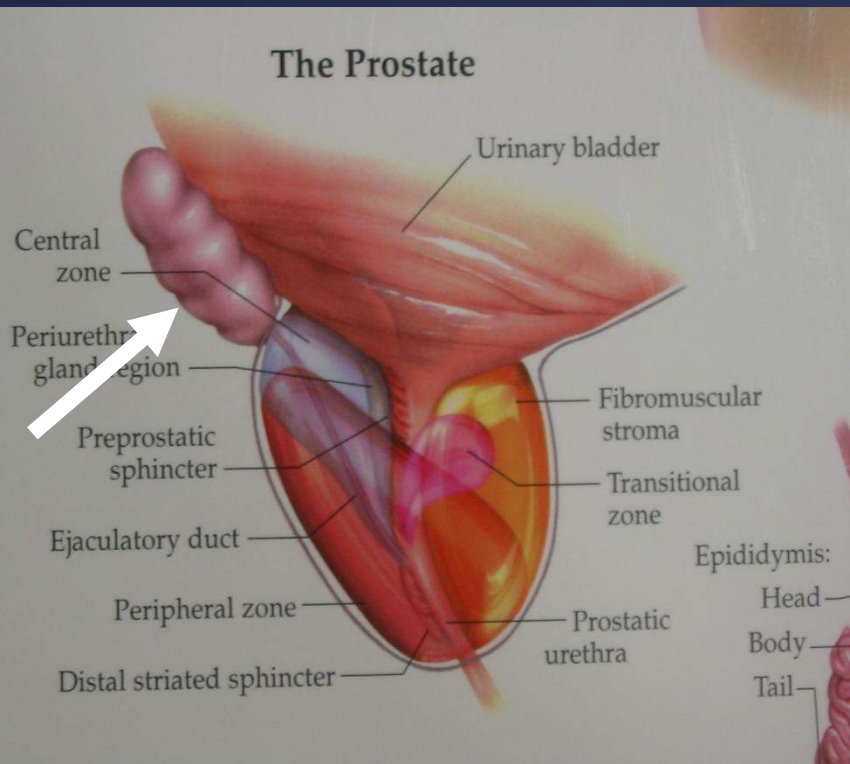


EJACULATION

Ejaculatory Reflex

- * Sympathetic Stimulation leading to
- * Contraction of S.Vescicles, Vasa
- * Emission
- * Closure of Bladder neck
- * Distention of Posterior Urethra
- * Peri-Urethral Muscle Contractions leading to Antegrade Expulsion out of the external urethral meatus

Three phases of ejaculation



*Phase -1: Emission

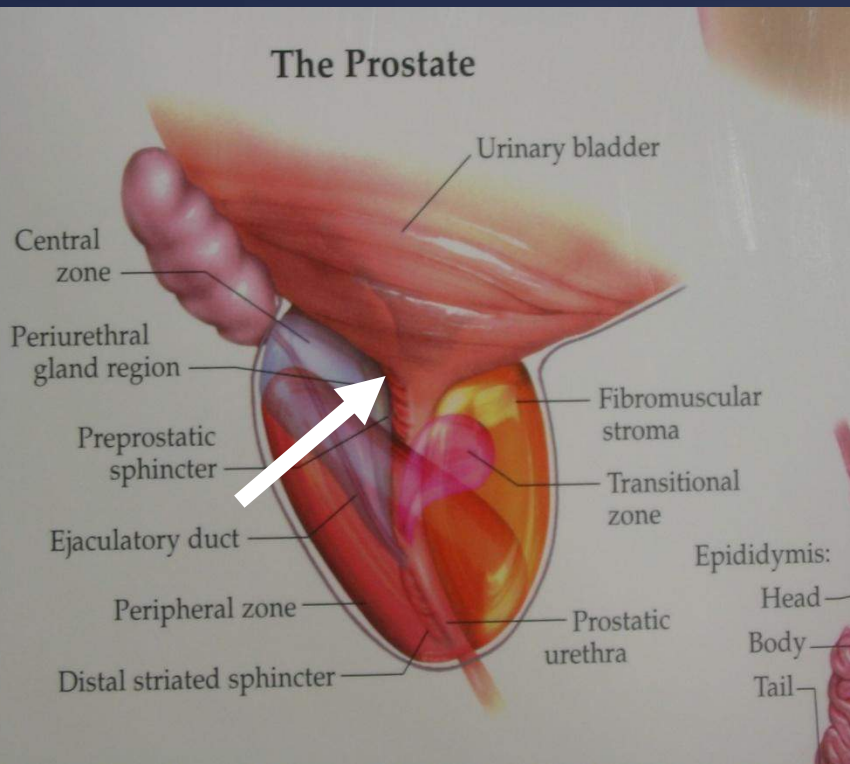
S.V. and vas contract depositing sperm in posterior urethra.

Symp. Innervation

T10 - L2 through

Hypogastric plexus

Three phases of ejaculation

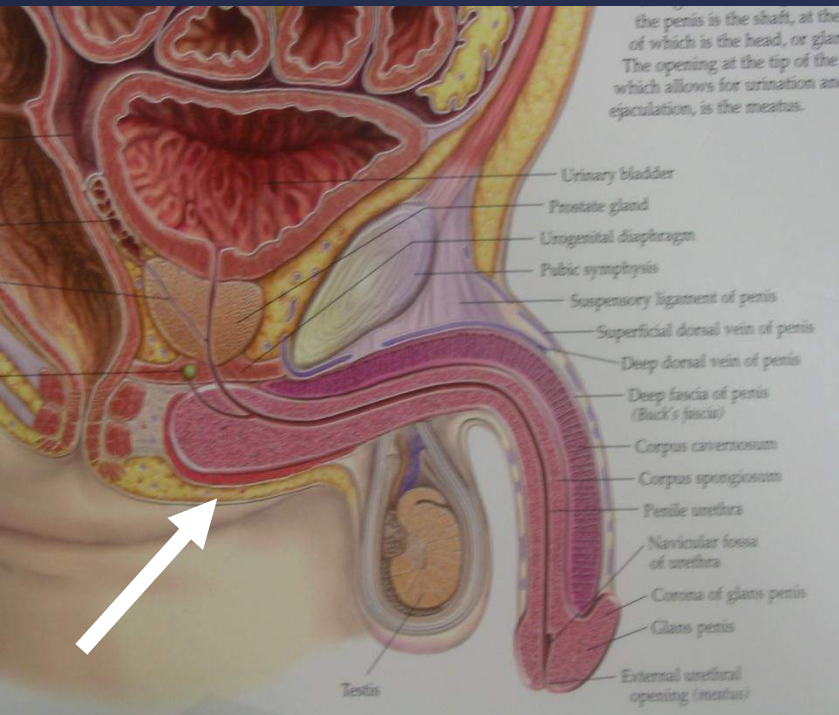


*Phase -2: Closure of bladder neck

Prevents retrograde ejaculation, Controlled via

Sympathetic fibres originating T10-L2

Three phases of ejaculation



*Phase -3:

Antegrade propulsion

By rhythmic contractions of BCM

-Perineal Branch of Pudendal nerve S2-S4

Failure to ejaculate

- * **Climax disorder**

- does not reach orgasm

- * **Phase-1 disorder**

- failure of emission

- * **Phase-2 disorder**

- retrograde ejaculation

- * **Phase-3 disorder**

- failure of antegrade propulsion

Types of Anejaculation

- * Situational Anejaculation

- * Total Anejaculation

Types of anejaculation

* **Situational Anejaculation:** - can consciously ejaculate in some situations

* **Total Anejaculation:**
- never ejaculates during intercourse or masturbation but nocturnal emissions are present

Total Anejaculation

- * Due to physical causes

- * Psycho-physiological causes

Total Anejaculation

***Due to physical causes**

- reaches orgasm, but no ejaculate occurs due to anatomical block or neurological problem.

This is **ORGASMIC ANEJACULATION**

Total anejaculation

* Due to Psycho-physiological causes

- does not reach orgasm, so no ejaculation

This is called -

Anorgasmic Anejaculation

Anejaculation



Do you ejaculate in some situations?

Anejaculation

Situational



Yes



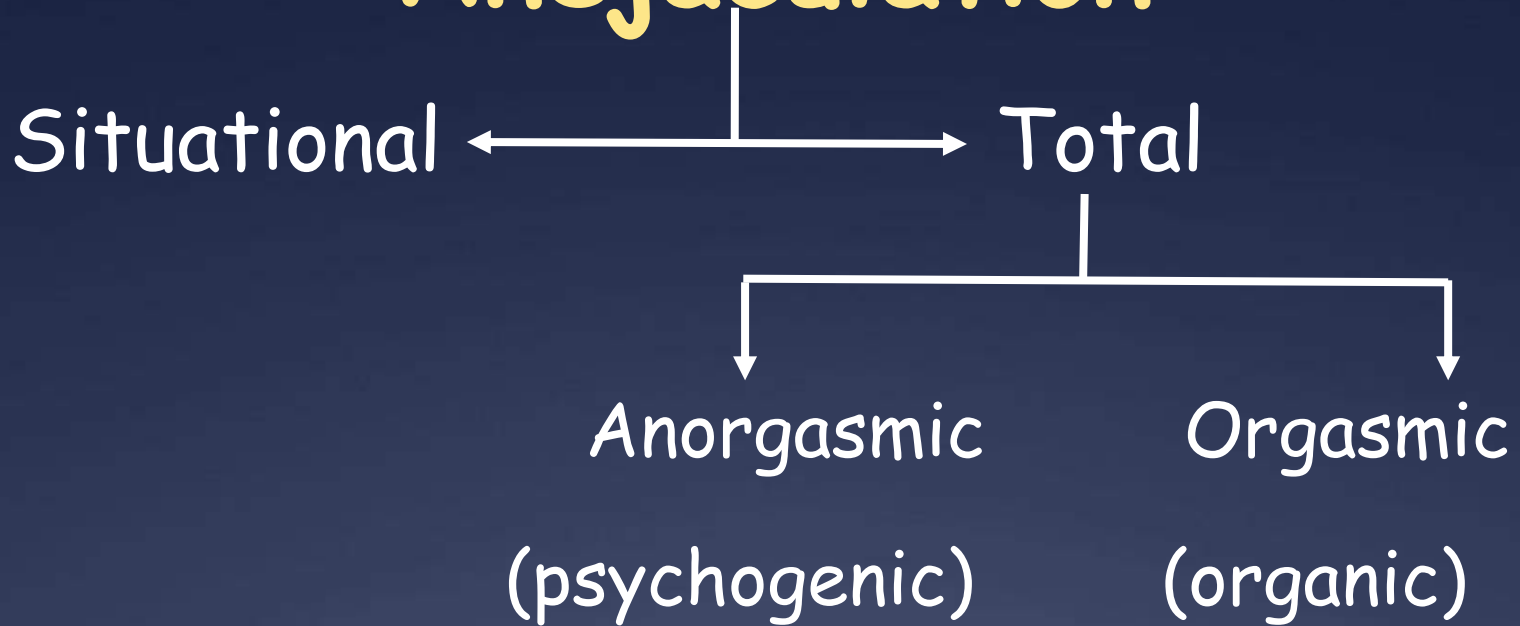
Total



No

Do you ejaculate in some situations?

Anejaculation



Do you reach an orgasm?

Anejaculation

Situational

Total

Anorgasmic

Orgasmic

(psychogenic)

(organic)

No

Yes

Do you reach an orgasm?

Total Anejaculation

“ Do you reach orgasm?”

- “No”
- “Maybe”
- “I don't know”

Anejaculation

Situational

Total

Anorgasmic
(psychogenic)

Orgasmic
(organic)

Do you have night emissions?

Pseudo-ejaculation

Difficulty in collecting semen, gives:

- * **Urethral secretions**

- low volume, fructose negative

- * **Urine**

- yellow coloured "semen"

**It is not semen, Hence obviously
Azoospermic**

Treatment of situational Anej.

- *Unexpected failure
- *Perioviulatory
- *Clinic anejaculation
- *Masturbatory anejaculation
- *Intercourse anejaculation

Unexpected failure to ejaculate

- *Prior cryopreservation
- *Home collection, prior to pick-up
- *Vibrator
- *Electro ejaculation
- *TESA (not PESA)

Peri-Ovulatory / On-Demand Anejaculation

- *Pre-ovulatory cryopreservation
- *Erectogenic drugs
 - *Intra-penile injection/sildenafil
- *Vibrator-induced ejaculation
 - *Advance training preferable
- *Electro ejaculation

Clinic / Lab Anejaculation

- *Home collection
- *Arrange room near clinic
- *Vibrator-induced ejaculation
- *in-clinic advance training
mandatory

Inability to masturbate

- * Coitus interruptus
- * Non-spermicidal condom
- * Vibrator-induced ejaculation

Always enquire about ability to masturbate when asking for SA

Intercourse Anejaculation

- *Psychosexual therapy

 - correct technique ; use of fantasy
; resolution of trauma, guilt,
conflict

- *Therapy for erectile dysfunction

- *AIH with masturbatory sample

Treatment of Total Anejaculation

*Anorgasmic Anejaculation

*Orgasmic Anejaculation

Anorgasmic Anejaculation

Never reaches orgasm,
hence never ejaculates

Unusual problem, often misdiagnosed

Anorgasmic Anejaculation

Psychosexual / Physiological

1. Previous psycho-sexual trauma
2. Low sexual arousal
3. Inadequate sexual stimulation
4. High ejaculatory threshold

Treatment of Anorgasmic Anejac.

* Psycho-sexual therapy

- establishes normal orgasm & ejac.
- slow progress; low success rate

* Artificial stimulation

- immediate success
- temporary solution

For majority, fertility is the sole concern

Vibrator therapy for Anejaculation

Principle

Prolonged stimulation of the glans with a high amplitude vibrations will reach the ejaculatory threshold and induce orgasm and ejaculation

Vibrator therapy for Anejaculation

Technique: Preparatory counseling

- * Explain physiology
- * Alleviate anxiety / inhibitions
- * Automatic event / reflex
 - "Not under your control"
 - "You can not wish it"

Vibrator therapy for Anejaculation

Technique

Privacy

Sits comfortably

Stimulate undersurface
of glans

Fantasy / Erotic pics

Stimulate up to 1 hour

Up to 4 sessions



Inexpensive Vibrators



Vibration therapy for Anejaculation

Follow-up

If ejaculates with the vibrator:

- * vibrator for home use
- * IUI with vibrator sample
- * vibrator-primed intercourse
- * some will achieve natural ejaculation

Treatment of Anorgasmic Anejaculation

If vibrator fails,
Then the next step is
Electro-ejaculation

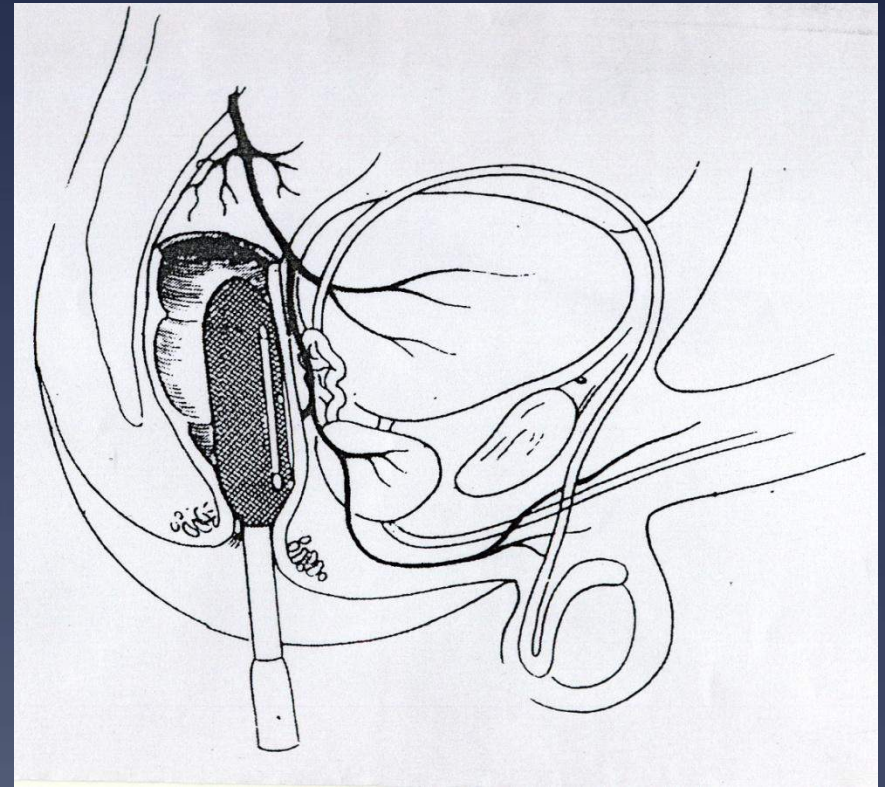
Electro-Ejaculation



Seager
Electroejaculator

- * Trans-rectal stimulation of nerves to S.V. & vas with an A/C current at 5-25 v, 100-500 mamps
- * Very effective
- * Needs G.A.

Electro Ejaculation









electro_short.mpg

Orgasmic Anejaculation

Due to organic causes:

- *Failure of emission
- *Retrograde ejaculation
- *Failure of propulsion

Phase I Disorders

Failure of Emission

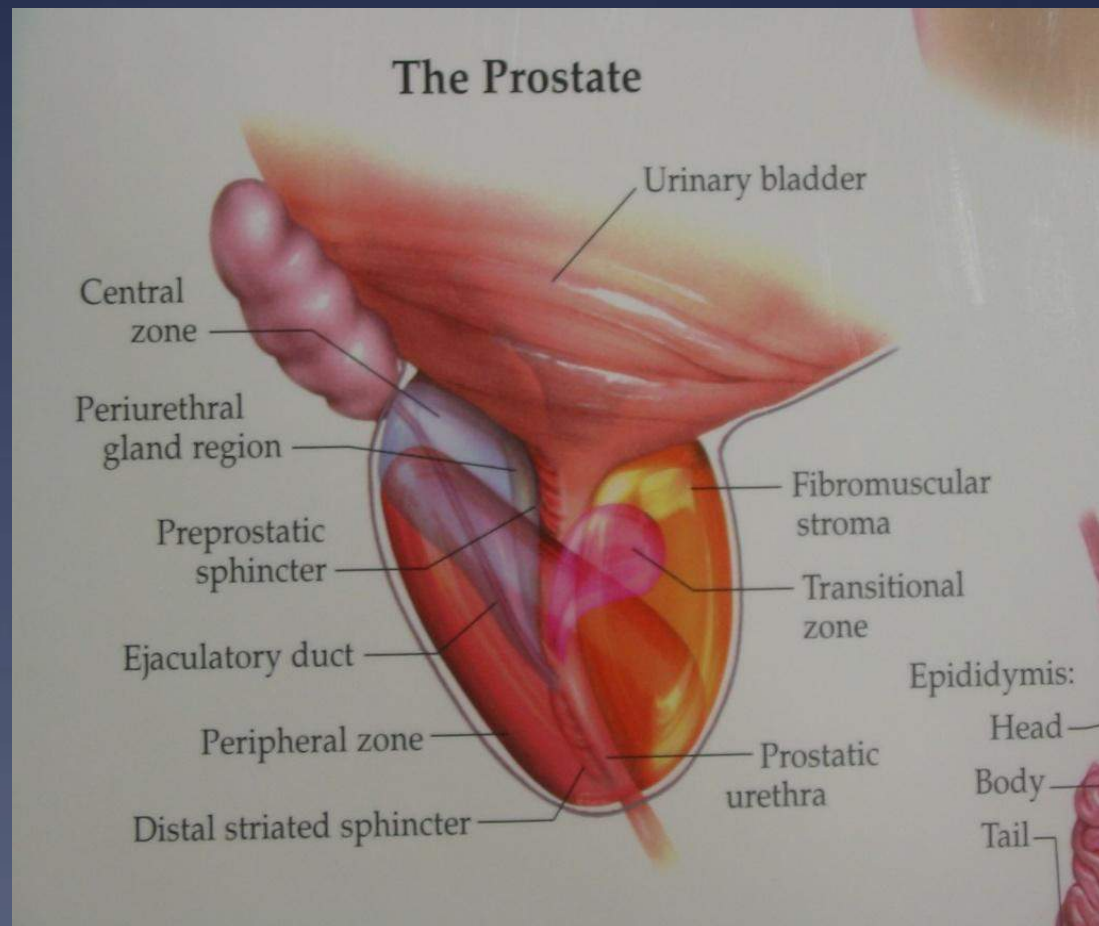
- * Anatomical obstruction : GU Koch's
- * Neurogenic failure
 - * SCI ; RPLND ; sympathectomy
- * Pelvic, aortic, spine surgery
 - Diabetic neuropathy ; drugs ; MS
- * Endocrine: prepubertal hypogonadism
 - : postpubertal hypogonadism

Treatment of Emission Failure

* Due to anatomical block

- TURED not possible

- PESA-ICSI



Emission Failure & Retrograde Ejaculation Drug Therapy

Drug	Dose
Pseudoephedrine	60 mg QID
Ephedrine	30 mg QID
Phenylpropanolamine	75 mg QID
Imipramine	50 mg HS

◆ 2 week trial

Treatment of Emission Failure

* Due to impaired sympathetic activity

- Medication : may help in diabetic neuropathy.
- Vibrator stimul. : 50% SCI respond
- Electroejaculation : highly successful

Treatment of Emission Failure

* Due to hypogonadotropic hypogonadism

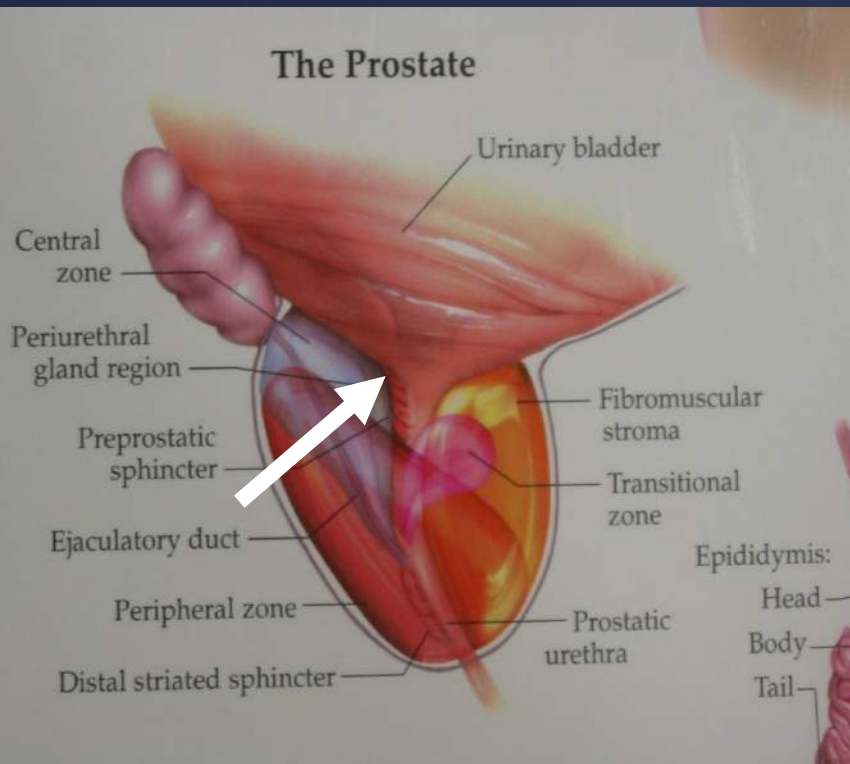
- gonadotropins

- testosterone

* Due to testicular atrophy

- testosterone

Phase-2 Disorder



*Phase -2:
Closure of
bladder neck
Prevents
retrograde
ejaculation

Phase II Disorders

Retrograde Ejaculation

- * Anatomical disruption of bl. neck
 - * BNI; TUR; trauma
- * Neurogenic failure of bl. neck fn.
 - * diabetic neuropathy; α -blockers
- * Congenitally wide bladder neck
- * Idiopathic

Retrograde Ejaculation: Treatment

- * **Due to damaged bladder neck**
 - drug therapy not effective
 - surgical reconstruction of BN :
inadvisable
 - sperm retrieval from bladder
from urine
from medium

Retrograde Ejaculation: Treatment

* Due to neuropathy

- drug therapy effective in 50%
- sympathomimetics & anticholinergics

Retrograde Ejaculation

Sperm Recovery from Bladder

- *Urine must be dilute and alkaline
- *Start alkalinizer 2 days prior
- *On collection day: fluids + alkalinizer
- *Check urine pH every 20 minutes
- * contd...

Retrograde Ejaculation

Sperm Recovery from Bladder

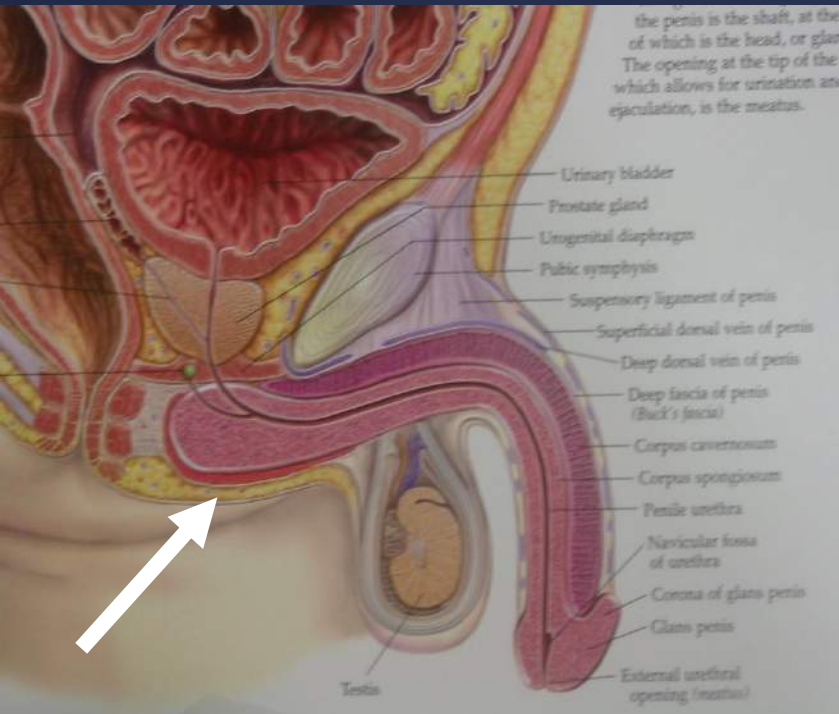
- * When urine pH > 7.5, patient masturbates
- * Post-orgasm urine is immediately collected and centrifuged
- * Sperm pellet washed, processed for IUI

Retrograde Ejaculation

Sperm Recovery from Medium

- * Start alkalinizer on previous day
- * Dehydrate overnight
- * Catheterize (mineral oil for lubrication)
- * Instill 30ml medium & remove catheter
- * Pt. masturbates & then voids medium
- * Medium centrifuged to recover sperm

Phase 3 Disorders



*Phase -3:
Antegrade propulsion
By rhythmic contraction of BCM

Phase III Disorders

Failure of Antegrade Propulsion

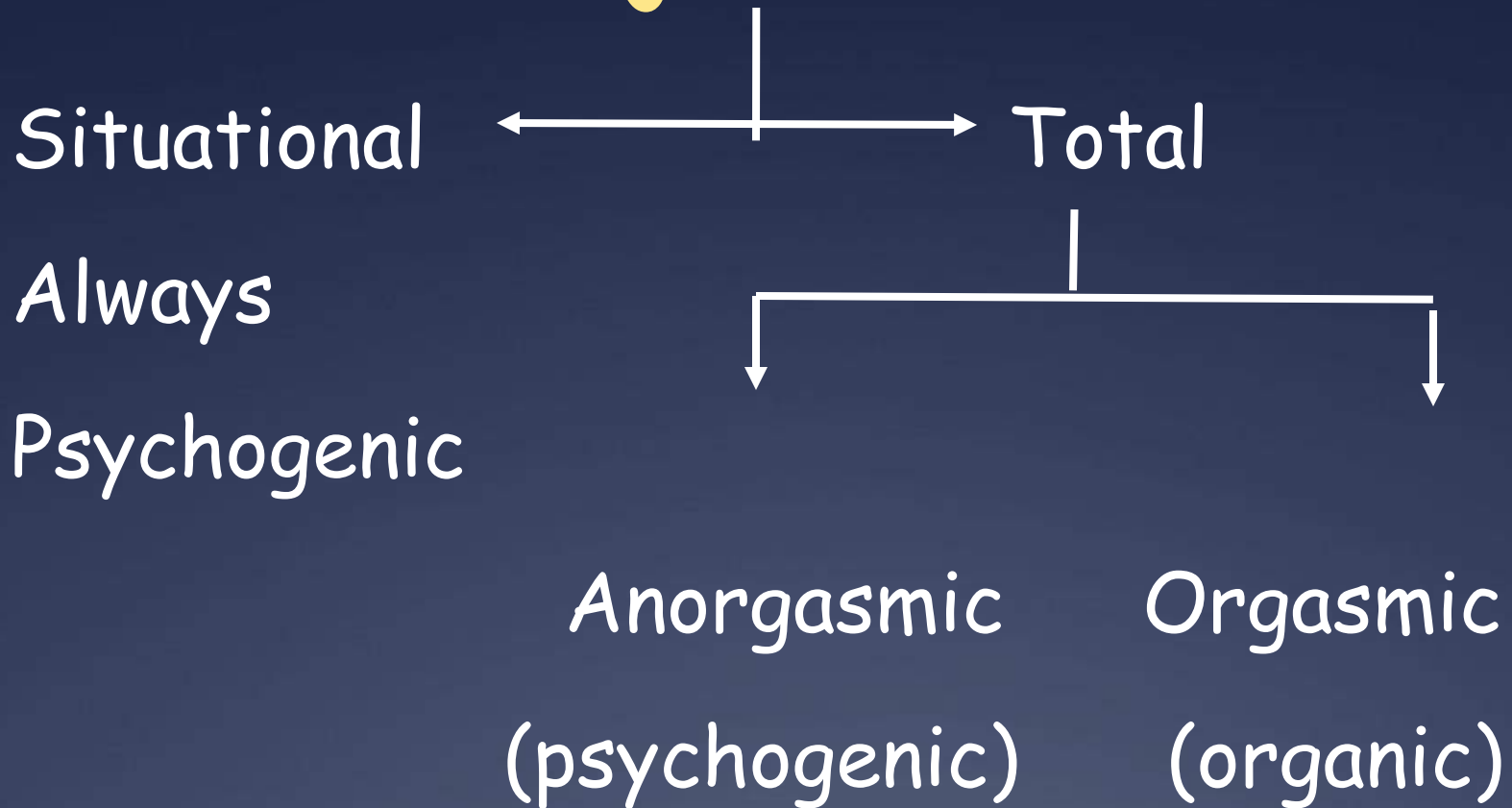
- * Bulbocavernous muscle dysfunction
 - * Surgical disruption, myopathy
 - * pudendal neuropathy
- * Anterior urethral obstruction
 - * Diverticulum; pouch; stricture

Failure of Antegrade Propulsion

- * If stricture / diverticulum:
 - surgical correction
- * If BCM myopathy/pudendal neuropathy or urethral pouch:
 - post orgasm dribble
 - collect semen by milking urethra,
 - Use it for IUI

To Summarize

Anejaculation



Take Home Message for IVF Centers

- Every clinic should have a vibrator
- Majority will respond to vibrator stimulation
- Rest will need Electro-Ejaculation
- Or sperm aspiration with ICSI

Case 1

- * 28 yr old, severe OAS
- * Undergoing IVF
- * Wife's egg pick-up done
- * Cannot give a semen sample

Case 1

*

Diagnosis: Situational Anejaculation

Treatment: Vibrator;

Electro-Ejaculation;

TESA (NOT PESA)

Case 2

- * 30 yr old, married 4 yrs.
- * soon after marriage, h/o right testicular swelling followed by pus discharge
- * Treated by medicines for 6 months
- * c/o no ejaculation since 3 years

Case 2

Diagnosis:

Orgasmic anejaculation, phase -1 disorder;

Failure of Emission due to anatomical obstruction of EDO secondary to Genital Koch's

Treatment: PESA-ICSI

Case 3

- * 23 yr old, unmarried
- * h/o bilat testicular swelling followed by testicular atrophy, at 16 years of age
- * c/o no ejaculation

Case 3

Diagnosis:

Orgasmic Anejaculation, phase-1 disorder;

Failure of emission due to
↓↓testosterone following testicular atrophy

Treatment: TRT; restore ejaculation, not fertility

Case 4

*26 yr old , married 2 yrs.

*S.A. - 2ml, yellowish, Azoo,
fructose negative

Orgasm ?

Case 4

*

Diagnosis: Anorgasmic Anejaculation

Treatment: Vibrator Therapy

Case 5

- *34 yr old, married 3 yrs
- *h/o Left testicular malignancy 2 yrs
- *Left Orchiectomy & RPLND done
- *Cannot give a semen sample.

Case 5

Diagnosis:

Orgasmic Anejaculation, phase -1 disorder;

Neurogenic failure of Emission following operative damage to sympathetic ganglia - L1

Treatment: Electro-Ejaculation