Male Sexual Function Dysfunction and Management



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Women need a reason to have sex; men just need a place.



- The penis does not obey the order of its master, who tries to erect or shrink it at will, whereas instead the penis erects freely while its master is asleep
- The penis must be said to have its own mind

Leonardo Da Vinci





Male sexual function



- Sexual desire or libido may be defined as a person's interest in initiating or having sexual intimacy
- Testosterone is the most commonly studied hormone involved with sexuality. It plays a key role in sexual arousal in males, with strong effects on central arousal mechanisms and libido



Male sexual function



Sex is all in the head

- Brain controls most of the phases of receiving and analysing, arousal stimuli
- Physiological responses also initiated by central mechanisms

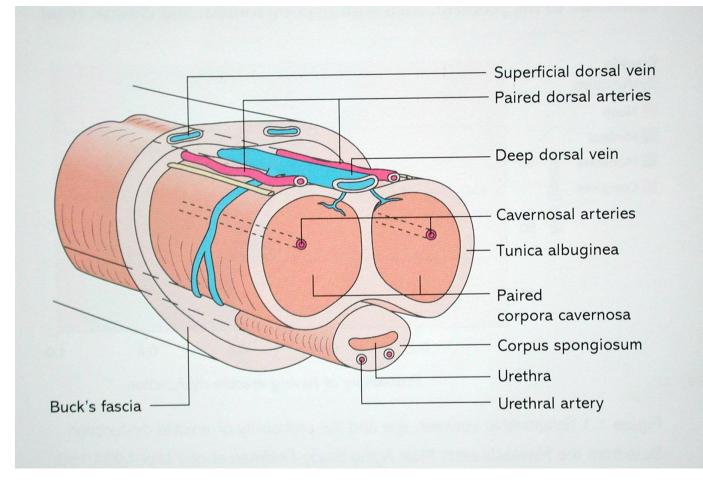




Male sexual function



Anatomy and Physiology of erection



Reproduced from Carson C, Holmes S, Kirby R. Fast Facts- Erectile Dysfunction. Oxford: Health Press Limited; 2002: 8

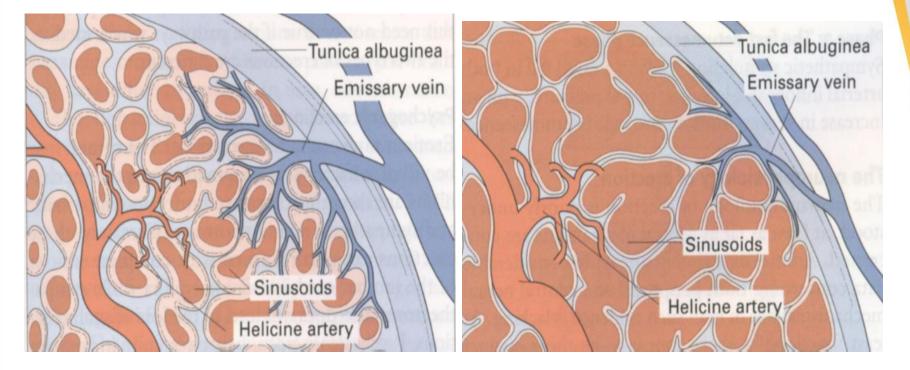


Increased arterial inflow to penis

- Filling of sinusoids of the corpora cavernosa, aided by relaxation of cavernosal smooth muscle (CSM)
- Passive occlusion of the venous plexus provides increased resistance to outflow and aids rigidity



Mechanism of erection

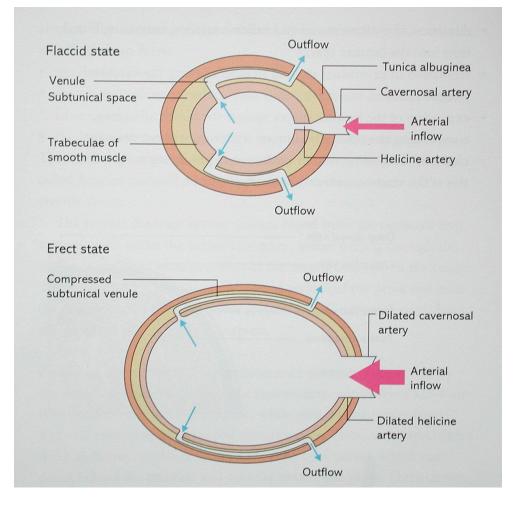


Flaccid

Erect



Veno-occlusive Mechanism



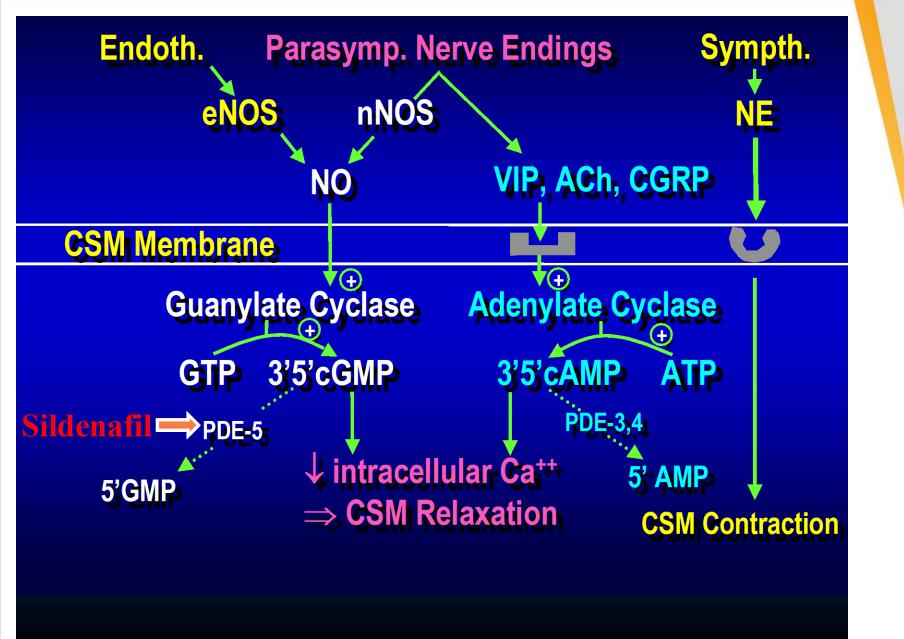
Reproduced from Carson C, Holmes S, Kirby R. Fast Facts-Erectile Dysfunction. Oxford: Health Press Limited; 2002 :12



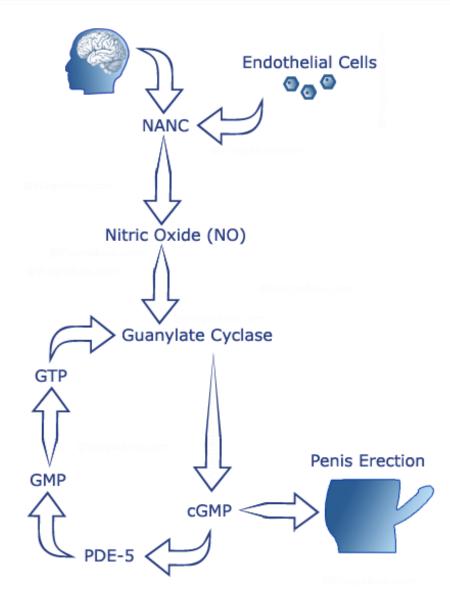
Anatomy and Physiology of erection

- Parasympathetic nerves S2-4 mediate erection
- Sympathetic nerves T11-L2 control ejaculation and detumescence
- NANC pathway through release of NO
- Final step- Cavernosal Smooth muscle relaxation
 - Nitric oxide diffuses into cavernosal smooth muscle cells, activates Guanylate cyclase converts GTP to cGMP resulting in smooth muscle relaxation.









 Nitric oxide diffuses into cavernosal smooth muscle cells, activates
 Guanylate cyclase
 converts GTP to cGMP
 resulting in smooth
 muscle relaxation.

 Effect of cGMP stopped by Phosphodiesterase type 5 which exists primarily in corpora cavernosa



Male sexual function



Neurotransmitters facilitating orgasm and ejaculation

- Climax and Ejaculation is facilitated by
 - Rise in dopamine
 - Inhibition of serotonin



- Ejaculation is a complex process controlled by a spinal reflex triggered by tactile stimulation of mechanoreceptors within the penis.
- Sympathetic efferent fibers (T10-L3) trigger the two phases of ejaculation—1) emission and 2) expulsion—through contraction of the penile musculature.



- During the expulsive phase, it is necessary that the bladder neck (internal urethral sphincter) be closed to prevent the reflux of semen into the bladder as the urethral pressure increases
- Closure of the bladder neck is also under sympathetic control

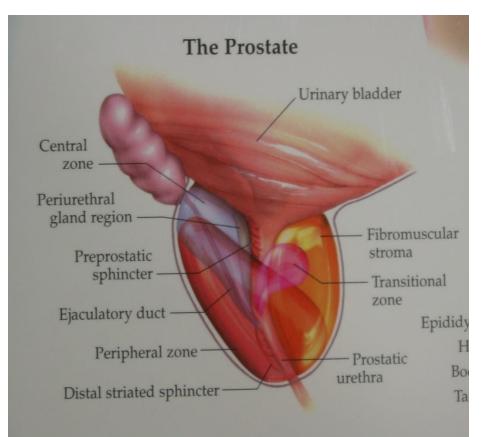


Phases of ejaculation

- Climax reaching orgasm
- Three phases of ejaculation
- Phase 1 : Emission
- Phase 2 : Bladder neck closure
- □ Phase 3 : Antegrade propulsion



Three Phases of Ejaculation

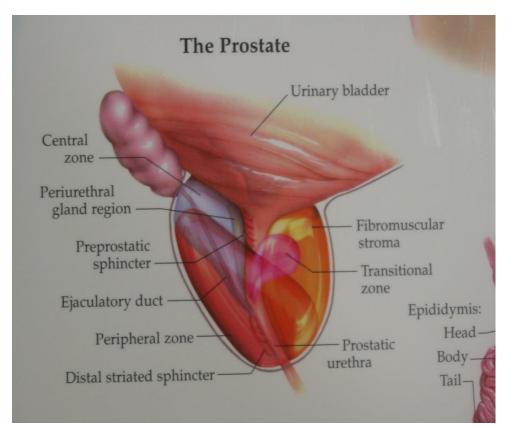


Phase 1: Emission

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



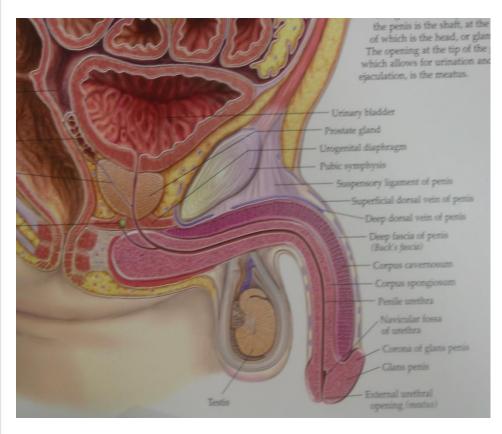
Three Phases of Ejaculation



Phase 2: Closure of bladder neck Prevents retrograde ejaculation



Three Phases of Ejaculation



Phase 3: Antegrade propulsion

By rhythmic contraction of BCM



Decreased libido Lack of Arousal Erectile dysfunction □ Failure to climax Ejaculatory disturbance Priapism



Decreased libido
Lack of Arousal
Erectile dysfunction
Failure to climax
Ejaculatory disturbance



Sexual History Libido

"Do you feel the desire for sex" Distinguish low libido v/s ED Current frequency of IC Low libido secondary to ED? ? Masturbation

Libido –Global rather than situational



Depression

- Work pressures & fatigue
- Marital stress
- Low testosterone
- Hyperprolactinemia



Sexual History Arousal

- "Do you find your partner physically attractive?"
- Other partners
- Sexual orientation
 - "Fantasy during masturbation"
 - "Childhood encounters?"
 - Fetish
 - > Paraphilia
- Low Arousal maybe situational not necessarily global



Synonym: Impotence

 Inability to attain and maintain an erection sufficient for satisfactory sexual performance



Incidence and prevalence is high worldwide
 Effects up to 52% of men (40-70yrs)

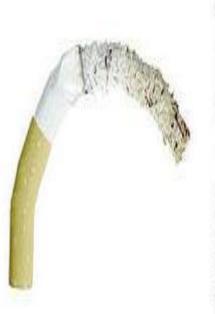




- Sedentary lifestyle
- Obesity
- Smoking
- Hypercholesterolaemia
- Diabetes mellitus
- Hypertension
- Metabolic syndrome



Tobacco and ED



WARNING: Tobacco Use Can Make You Impotent

Cigarettes may cause sexual impotence due to decreased blood flow to the penis. This can prevent you from having an erection.

Health Canada





Aetiology

Psychogenic

Organic

- Vasculogenic
- Neurogenic
- Hormonal
- Anatomical
- Drugs



History suggesting psychogenic cause	History suggesting organic cause
 Sudden onset 	Gradual onset
 Early collapse of erection 	 Normal ejaculation
 Self stimulated or waking 	Normal libido
erections	 Medical risk factor
 Premature ejaculation or inability to ejaculate 	 Trauma/surgery/radiothera py to pelvis
Problems/change in	Current medication
relationship	• Lifestyle
 Major life event 	
 Psychological problem 	



- General (disorders of intimacy, lack of arousability)
- Situational (partner, performance, stress)
- Psychiatric illness (Anxiety states, depression, psychosis, alcoholism)



Neurogenic causes of ED

- Lesions of medial preoptic nucleus, paraventicular nucleus, hippocampus
- Spinal trauma
- Myelodisplasia (spina bifida)
- Pelvic surgery/radiotherapy
- Multiple sclerosis
- Intervertebral disc lesion
- Peripheral neuropathies
 - > Alcohol
 - Diabetes
 - > HIV



Hormonal causes

- Hypogonadism
- Hyperprolactinaemia
- Thyroid disease
- Cushing's disease



" I GUESS I MUST BE THE EARLY BIRD "



- Antihypertensives (Beta blockers, Diuretics)
- Antidepressants (Tricyclic and SSRIs)
- Antipsychotics (Phenothiazines, Risperidone)
- Anticonvulsants (Phenytoin, Carbamazepine)
- Antihistamines
- H2 antagonists (Cimetidine, Ranitidine)
- Recreational drugs (Inc tobacco and Alcohol)



Assessment of the patient with E.D.

- Careful History
- Examination
- Further investigations



- Duration: insidious or acute onset
- Absence of erections or diminished quality
- Penetrative SI possible? Able to masturbate? Early morning erections?
- Libido normal, or decreased
- Pain or curvature of erection (?Peyronie's disease)
- Related psychosocial factors



Taking a history

- Take an understanding approach
- Sexual history International Index of Erectile Function questionnaire (IIEF)
- Current and Past sexual partners
- Current emotional state
- Erectile symptoms (onset and duration)
- Previous problems, advice and treatments
- Quality of erections (erotic and morning)
- Arousal, ejaculation and orgasm difficulties
- General medical/past medical history and medications



- Pragmatic approach best, based upon available treatments
- Sildenafil office test (S.O.T)
- Diagnostic intracavernosal injection (ICIVAD)
- Normal erection suggests normal vascular dynamics, and precludes further investigation
- Poor, or absent, erectile response may be followed by investigations in certain circumstances



- □ FBS/PPBS
- Lipid profile
- Serum Prolactin/TSH
- Urinalysis



- Testosterone affects secondary sex characteristics; effects on erections unclear - If libido is reduced, testosterone should be measured
- Testosterone declines with ageing, importance in ageing man with ED



- ED often the first indicator of significant cardiac disease
- Marker of vascular endothelial disease especially if organic in nature
- Not mandatory for use of medical therapy



- Penile doppler
- Rigiscan(NPT)
- MR angiography
- Penile biothesiometry
- Dynamic infusion cavernosometry
- Corpus cavernosometry



Quick diagnosis of ED

- History and physical exam
- Sugar and lipid profile

SOT

- If fails, ICIVAD
- If fails, further evaluation



Myths surrounding E.D.

- "Nothing can be done"
- "It's to be expected at my age, isn't it?"
- "Do you think it's all in my mind doctor?"





Pathophysiology of E.D.

Use it or lose it! More erections = increased normoxia Increased PGE and cAMP Decreased TGF-B ?? decrease fibrosis already present



"I've been replaced by a computer at work and a vibrator at home."



Treatment

- General Measures
- Psychosexual counselling
- Oral medication
- +/- TRT if Ageing male with LOH
- Home self injection therapy of VAD
- Vacuum Device
- Penile Prosthesis Surgery
- Other methods: MUSE, Revascularisation surgery, venous ligation surgery, SWT



- Main goal: diagnose and treat underlying cause
- Modify reversible causes (lifestyle, drugs).
- Men who initiated physical exercise and weight loss have upto 70% improvement

(note: cycling more than 3 hours per week may cause dysfunction)



Treatment of ED General Measures

- Smoking cessation
- Reduce alcohol
- Weight loss
- Exercise
- Psychosexual therapy



- Even if cause of ED is physical the patient will develop psychosexual issues
- Performance anxiety
- Sensate focus exercises
- Relationship counselling



Pharmacotherapy for ED

Oral agents

- Centrally acting dopamine-receptor agonist eg Apomorphine
- Phosphodiesterase type 5 inhibitors

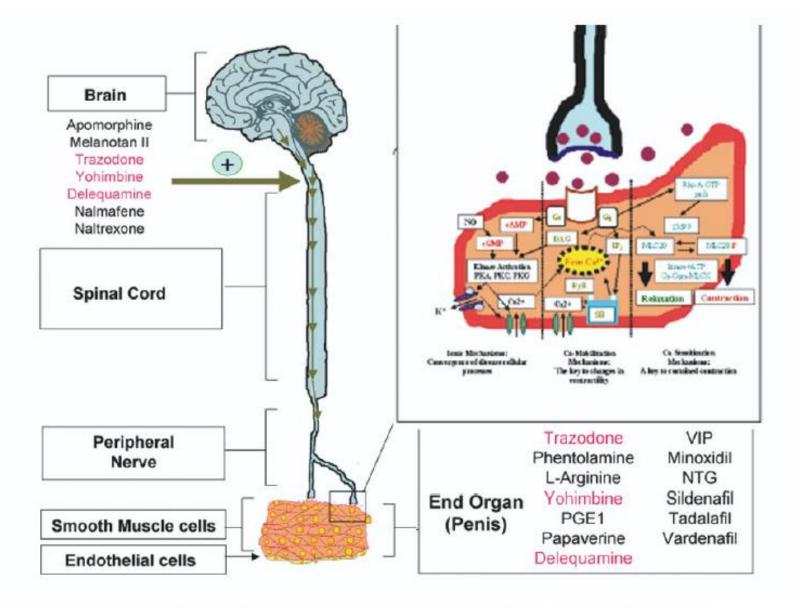
Intra-cavernosal

- Prostaglandin E1 Alprostadil
- > Bimix/Trimix

Intra-urethral

> Alprostadil





Schematic depiction of the general classification and putative sites of action of the currently used drugs for the treatment of erectile dysfunction.

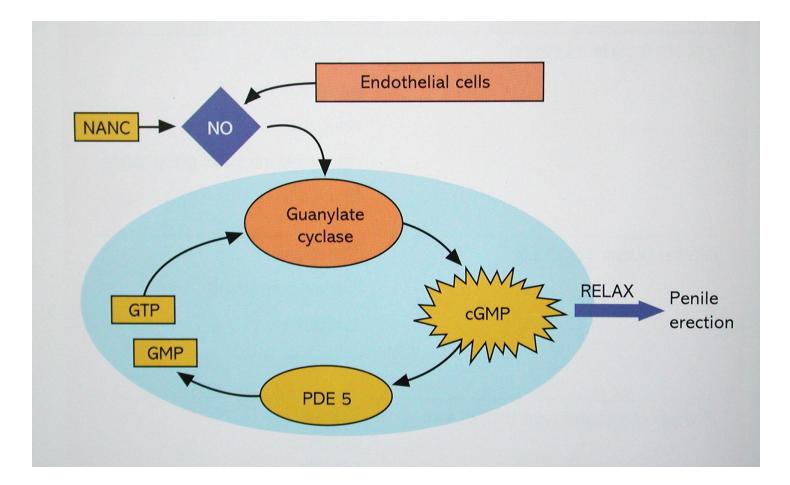


PDE5 inhibitors

- Sildenafil 50mg, 100mg
- Tadalafil 10mg, 20mg
- Tadalafil 5mg
- Udenafil 100mg
- Vardenafil and Avanafil not available in India



PDE5 Physiology



Reproduced from Carson C, Holmes S, Kirby R. Fast Facts-Erectile Dysfunction. Oxford: Health Press Limited; 2002 : 40



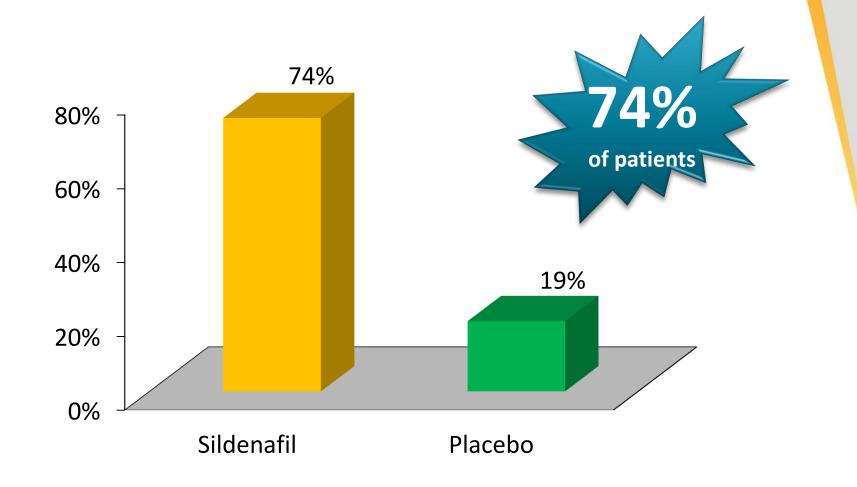
Pharmacokinetics and Clinical Characteristics of PDE inhibitors

	<u>Sildenafil</u>	<u>Vardenafil</u>	Tadalafil
T _{max}	0.8 hrs	0.7 hrs	2.0 hrs
Τ 1/2	4 hrs	4 hrs	17.5 hrs
Earliest onset	14 min	16 min	16 min
Median onset	36 min	25 min	45 min
Duration of action	4-6+ hrs	4-6+ hrs	36+ hrs
Efficacy	~75%	~75%	~75%
Side effects	HA, flushing	HA, flushing	HA, myalgia
Food effect	Often, esp. high fat meal	Very high fat (57%) meal	None
a-blockers	After 4 hours	Contraindicated	OK with Tamsulosin

Expression of PDEs in Human Tissues

<u>PDE</u>	Distribution
PDE1	Testes, heart, brain, vascular SMC (proliferating)
PDE2	CNS, adrenal cortex
PDE3	Adipose, vascular SMC, cardiac muscle, liver, platelets
PDE4	Neural, endocrine, lung, mast cells
PDE5	Lung, platelets, vascular SMC, kidney, SMC in corpus cavernosum
PDE6	Retina (rod and cone cells)
PDE7	Skeletal muscle, T-lymphocytes
PDE8	Testes, ovary, intestine
PDE9	Spleen, intestine, kidney, heart, brain
PDE10	Brain, testes
PDE11 Francis SH <i>et al.</i> Progress in N	Prostate, skeletal muscle, testes lucleic Acid Research and Molecular Biology, Vol 65, 2001

Reported improved erections





Not an aphrodisiac

- Does NOT directly affect
 - Libido/desire
 - Ejaculatory control
- Hence, proper sexual history is important



- Frequent unplanned intercourse Tadalafil
- Planned, infrequent intercourse Sildenafil
- □ Side effects and efficacy will vary in individual pt.
- Try both
- Let patient chose



PDE5 Inhibitors Side Effects

- Facial flushing
- Headache
- Nasal congestion
- Dizziness
- Dyspepsia
- Visual disturbance (blue halo)
- Priapism
- Non-arteritic anterior ischaemic optic neuropathy



PDE5 Drug Interactions

Nitrates

- Glyceryl trinitrate, isosorbide mono or dinitrate
- Chest pain after taking Sildenafil/Vardenafil no nitrates
 24 hours, Tadalafil no nitrates 48 hours
- Recreational amyl nitrate (Poppers)

Cytochrome P450 inhibitors

- Protease inhibitors especially Ritonavir use very small dose
- Cimetidine, Ketoconazole, Erythromycin

Alpha blockers



PDE5 Contraindications

Recent cardiovascular event

- Nitrates
- Hypotension
- Anatomical deformity
 - Angulation, Cavernosal fibrosis, Peyronie's
- Predisposition to prolonged erection
 - Sickle cell disease
 - > Multiple myeloma
 - Leukaemia



History of ICIVAD

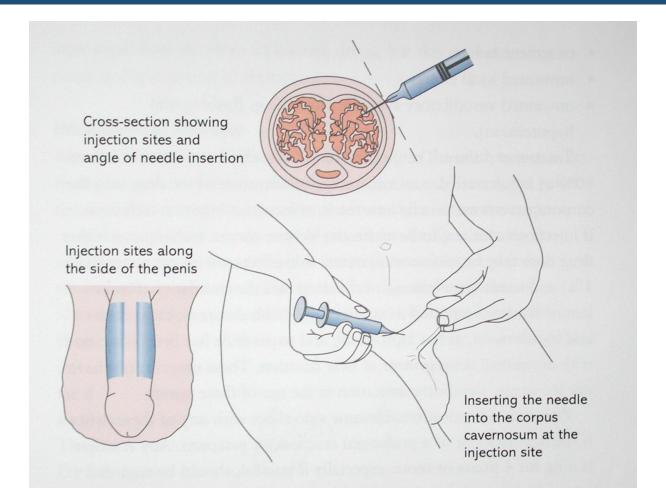
 Modern drug therapy for ED made a significant advance in 1983, when British neurophysiologist Giles Brindley, Ph.D. dropped his trousers and demonstrated to a shocked Urodynamics Society audience at AUA meet in Las Vegas, his phenoxybenzamine-induced erection.

 The drug Brindley injected into his penis was a nonspecific vasodilator, an alpha-blocking agent, and the mechanism of action was clearly corporal smooth muscle relaxation.

Klotz, L. (Nov 2005). "How (not) to communicate new scientific information: a memoir of the famous Brindley lecture". BJU Int 96 (7): 956–7.



Intracavernosal Injections



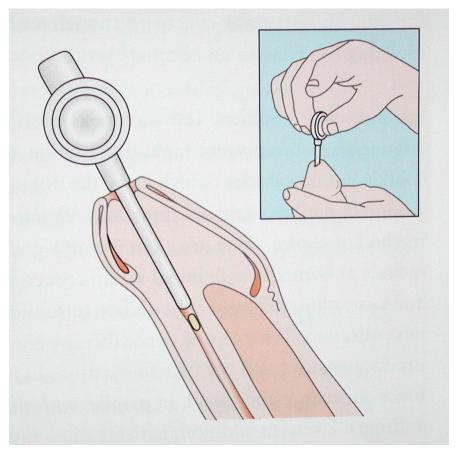
Reproduced from Carson C, Holmes S, Kirby R. Fast Facts-Erectile Dysfunction. Oxford: Health Press Limited; 2002 : 53



- Papaverine alone 30% success rate
- PGE1 alone 70% success rate
- Combination therapies may have success rates of 85-90%
- Priapism less with PGE1 (0.4% vs 6% for Papaverine
- Early drop-out rate as high as 50%
- Bimix : combination of papaverine and phentolamine/ chlorpromazine
- Reduced incidence of priapism



Intraurethral Alprostadil



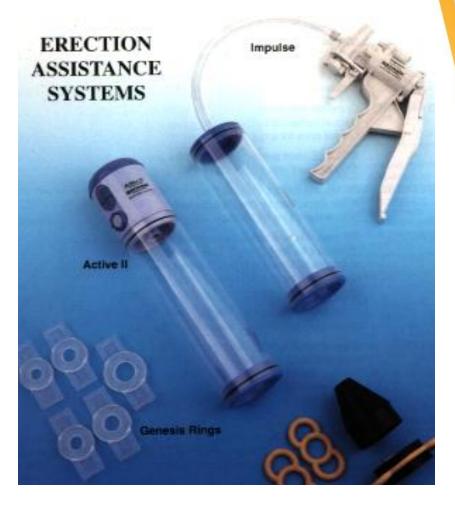
- Alprostadil (Muse) 125mg,
 250mg, 500mg, 1g
 - Pellet inserted with applicator
 - Massage penis to aid absorption
 - Side effects: Penile pain, dizziness, priapism rare

Reproduced from Carson C,Holmes S,Kirby R. Fast Facts-Erectile Dysfunction. Oxford: Health Press Limited; 2002 : 55



Vacuum device

- Less invasive than intracavernous injection
- Results variable
- Bruising reported so contraindicated in bleeding diathesis or anticoagulant treatment
- Expensive for patient to purchase





 Penile prosthesis: semi-rigid, malleable or inflatable.

 Considered if impotence has organic cause and fail to respond to medical management



Penile Prosthesis





- Usually tried only after injections and/ or for E.D. associated with Peyronie's disease
- Malleable/Semi-Rigid, or Inflatable types
- Insertion requires strict asepsis under GA/SA
- Only curative treatment for ED



- Mimic a native physiologic erection
- Mimic flaccid state when not in use
- Not interfere with urination/ejaculation
- Improve QOL and sexual satisfaction
- Simple to place and use
- Last for lifelong



Penile Prosthesis



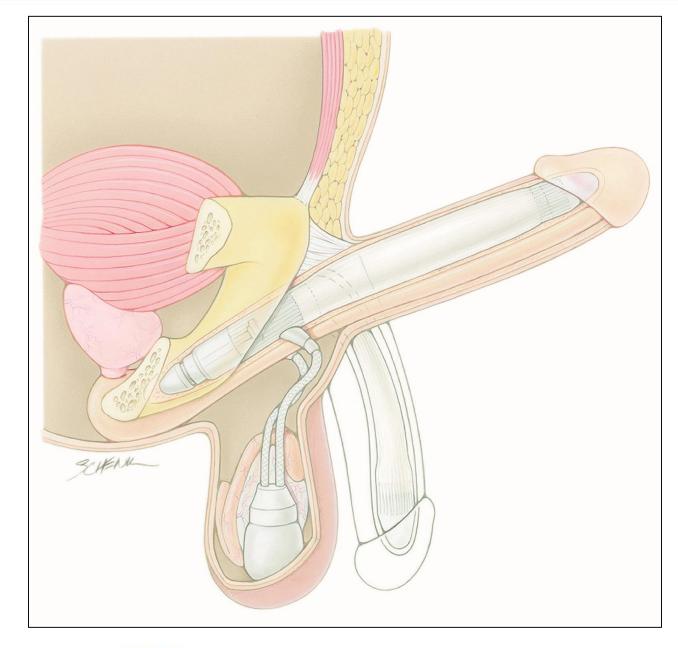
Shah Semi-Rigid Device





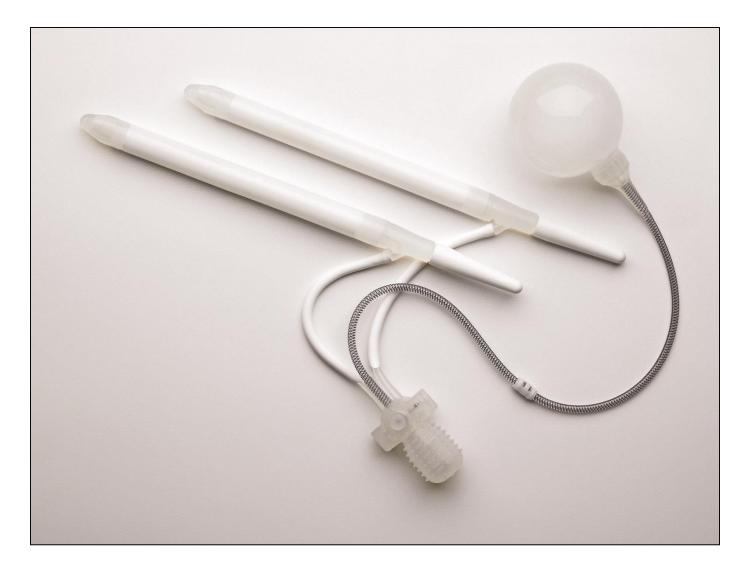
AMS Ambicor 2 piece inflatable device











AMS 700: 3 piece inflatable device



- Better understanding of chemical mediators may lead to better pharmacological treatments.
- Drug combinations
- Gene therapy
- ? Use of Stem cells/PRP



Summary of management of ed

Psychogenic	Organic
Psychosexual	 Pde5 inhibitors
counselling	• TRT if LOH present
Pde5 inhibitors	Intracavernosal
Intracavernosal	injections
injections	 Penile implant if
 Implant(very rare) 	conservative methods
	fail



Climax disorder

- Does not reach orgasm
- Phase-1 Ejaculatory disorder
 - Failure of emission
- Phase-2 Ejaculatory disorder
 - Retrograde ejaculation
- Phase-3 Ejaculatory disorder
 Failure of antegrade propulsion



 Anorgasmia, or Coughlan's syndrome, is a type of sexual dysfunction in which a person cannot achieve orgasm despite adequate stimulation

 Delayed ejaculation, also called retarded ejaculation or inhibited ejaculation, is a man's inability for or persistent difficulty in achieving orgasm, despite typical sexual desire and sexual stimulation



Aetiology

Psychogenic

- Inadequate sexual stimulation
- Poor sexual arousal
- Diabetic neuropathy
- Multiple sclerosis
- Genital mutilation
- Hormonal disturbances
- SCI
- Drugs (SSRI)
- Drug abuse



Counseling

- Treatment of cause
- Penile vibratory stimulation
- Medication
- PDE5 i



Pharmacotherapy for Delayed orgasm

DRUG	DAILY DOSAGE	ON DEMAND
AMANTADINE	75-100mg BID/TID	100-400mg 2 - 6 hrs prior
BUPROPRION	75mg bid/tid	75-150 mg 2 hrs prior
BUSPIRON	5-15mg BID	15-60mg 2 hrs prior
CYPROHEPATADINE	-	4-12mg
YOHIMBINE	5.4mg tid	5.4-10.8 mg



Pharmacotherapy for Delayed orgasm

DRUG	DAILY DOSAGE	ON DEMAND
CABERGOLIN	0.25 mg	
	Twice a week	
REBOXETINE	4 -8 mg daily	
OXYTOCIN		During
intranasal spray		intercourse



Anejaculation

- Anorgasmic/Orgasmic
- Total / Partial



 Partial – most commonly due to retrograde ejaculation

Total – either due to failure of emission/ retrograde ejaculation or failure of antegrade propulsion



Medical therapy

Common pharmacologic treatments for retrograde ejaculation (35)

Medication	Class	Dose/ Frequency	Efficacy % (1)	Side effects
Pseudoephedrine	Alpha receptor agonist	60 mg 4 times daily or 120 mg twice daily	30	Hypertension, abdominal pain, nausea/vomiting
Brompheniramine	Anti-histamine	16-24 mg daily	38	Anticholinergic side effects
Imipramine	Tricyclic antidepressant	25 mg twice daily	65	Anticholinergic side effects including cardiac dysrhythmias
Midodrine	Alpha receptor agonist	15 mg daily	62	Headache, anxiety, dry mouth
Ephedrine	Indirect adrenergic receptor agonist	50-100 mg daily	20	Tachycardia, hypertension, nausea, headache



Failure of Emission

- Medical therapy- if due to neuropathy
- Penile vibro-stimulation
- Electroejaculation







Persistent or recurrent ejaculation that occurs with minimal stimulation before, on, or shortly after penetration before the person wishes it to over which the person has no voluntary control which causes marked distress or interpersonal difficulties

PE : DSM-IV-TR



Primary (lifelong) PE

- Biological and genetic basis
- Acquired PE
 - Develops after a period of normal control



Etiology of PE

Psychogenic

- Anxiety
- Early sexual experience
- Frequency of sexual intercourse
- Ejaculatory control techniques
- Evolutionary
- Psychodynamic theories

Biological

- Penile hypersensitivity
- Hyper-excitable ejaculatory reflex
- McMahon et al, TEXTBOOK OF SEXUAL MEDICINE
- > Arousability
- Endocrinopathy
- Genetic predisposition
- 5-HT receptor dysfunction



Primary (lifelong) PE

- Penile hypersensitivity
- > Hyper excitable ejaculatory reflex
- 5-HT receptor dysfunction
- Genetic predisposition



Ejaculation related effects of 5HT at different receptors

Receptor		Effect produced	
5HT _{1A}	Somatodendriti c autoreceptors	Decreases ejaculatory latency	Central regulation
5HT _{1B} , 5HT _{1D}	Presynaptic autoreceptors	Prolongs ejaculatory latency	
5HT _{2C}	Signaling receptors	Prolongs ejaculatory latency	Central regulation



Modulating Serotonin for PE Control



Serotonin pathways delay ejaculation

Central 5-HT receptor imbalance

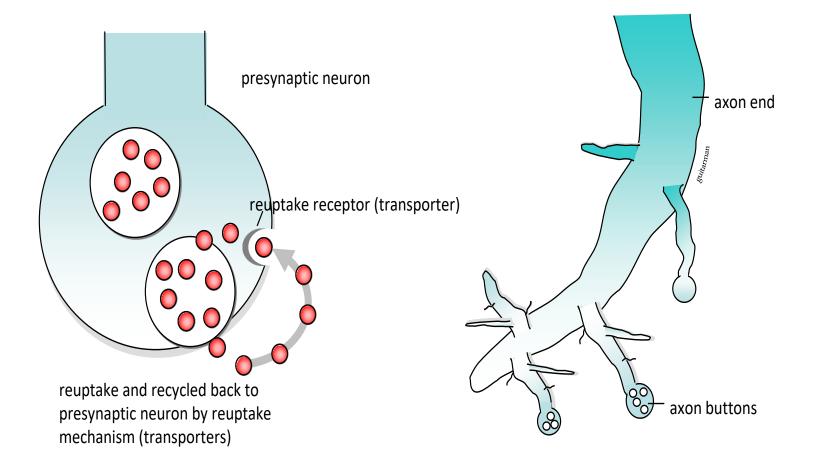
Lower 5-HT transmission in PE?

- > 5HT_{1A} hypersensitivity?
- > 5HT_{2C} hyposensitivity?
- Extent of 5HT_{1A}/5HT_{2C} imbalance

Montorsi F: J Sex Med, 2005;2 (Suppl 2): 96-102 Ahlenius S, et al. Pharmacol Biochem Behav 1981;15:785–92

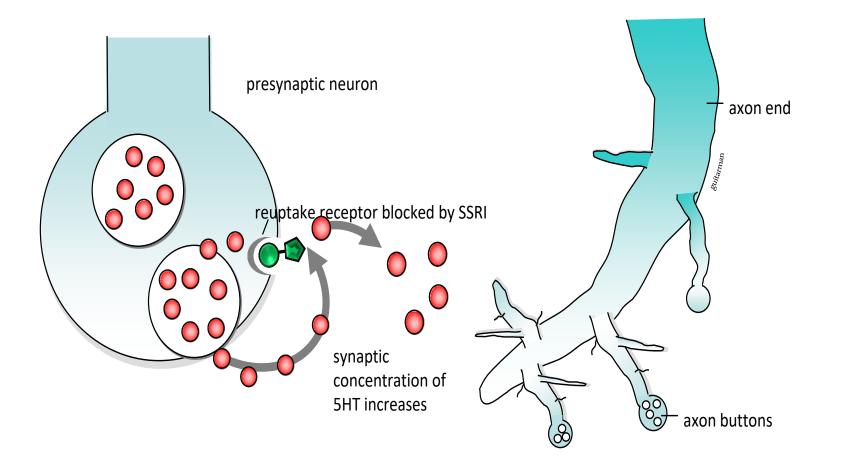


Serotonergic presynaptic reuptake mechanism





How do SSRI drugs work?





Management of PE

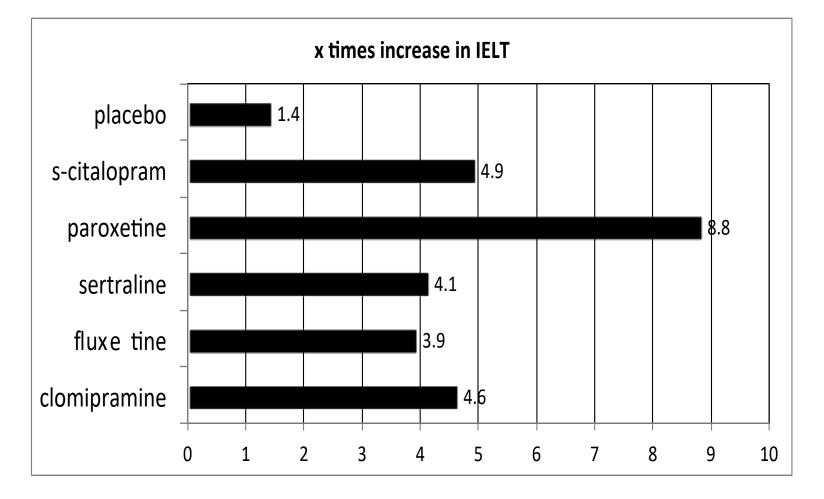
- Psychosexual counseling
- Technique and position
- Start stop/squeeze technique
- Medication



- □ SSRIs long-acting
- SSRI short-acting
- Tricyclic anti-depressants with SSRI action
 PDE5i
- Topical anesthetics
- Glans injections with hyaluronic acid
- Intra-cavernosal injections



SSRI effects on increasing IELT



Waldinger Int J Impot Res, 2004; 16: 369-381



Safety of SSRIs

General side effects

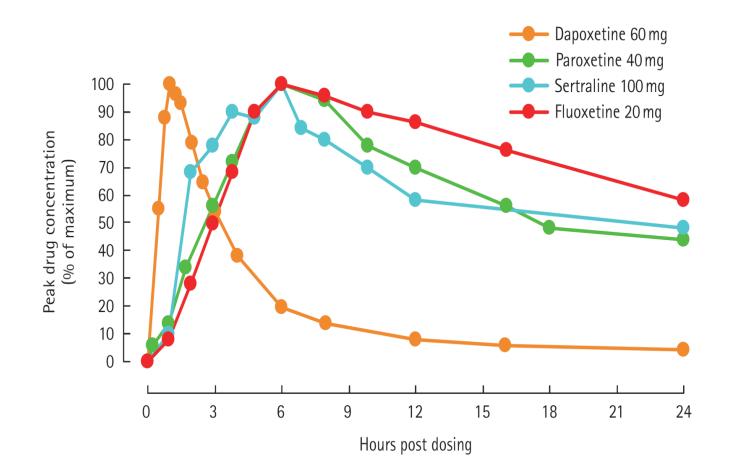
Insomnia; fatigue; nausea, constipation, loss of appetite; suicidal ideation

Sexual side-effects

- Reduced libido; anorgasmia; ED
- Discontinuation syndrome
 - Dizziness, nausea, vomiting, fatigue; headache; ataxia; lethargy; anxiety; agitation; insomnia



Dapoxetine in PE



Comparative half-lives of DAP versus other SSRIs



 Starting dose - 30 mg, 1 to 3 hours prior to sexual activity

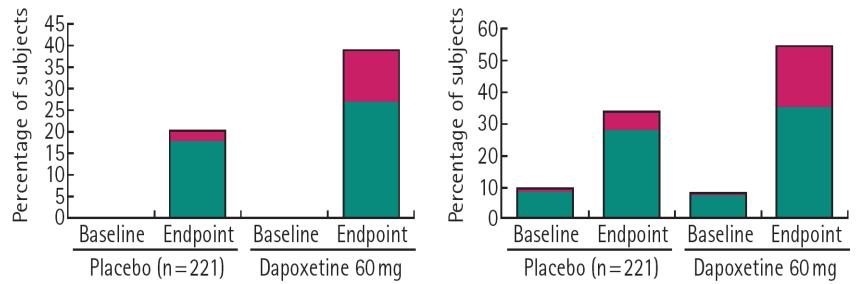
- If 30 mg is insufficient and side effects are acceptable, increase to 60 mg
- The maximum recommended dosing frequency is once every 24 hours



Satisfaction with Dapoxetine

"Very good" perceived control over ejaculation
 "Good" perceived control over ejaculation

tion
 "Very good" satisfaction with sexual intercourse
 "Good" satisfaction with sexual intercourse



50% of patients are happy with the therapy



Adverse Effects

	PLA (n = 872)	DAP 30 (n = 876)	DAP 60 (n = 870)
Nausea	1.9%	8.7%	20.1%
Diarrhea	1.4%	3.9%	6.8%
Headache	4.0%	5.9%	6.8%
Dizziness	0.8%	3%	6.2%
Somnolence	0.2%	3.2%	3.7%
Reasons for study discontinuation			
Nausea	0.1%	1.3%	3.8%



- Randomised, placebo-controlled, double-blind, phase 3 trial across 62 sites in Europe of tramadol ODT
- Placebo; 62mg tramadol; 89 mg tramadol
 IELT: 0.6min; 1.2 min; 1.5 min
- Well tolerated, discontinuation from side-effects: 1.6%

Bar_Or et al, Eur Urol. 2012 ;61:736-43



Topical anesthetics for PME

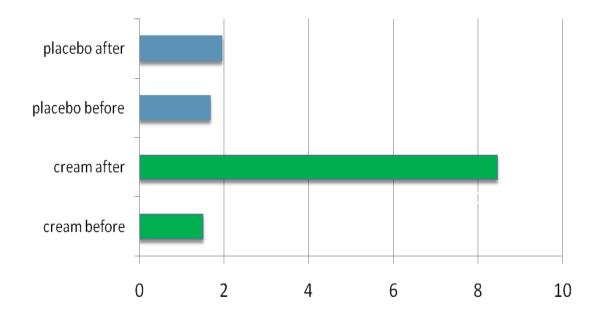
Authors	Drug	Level of Evidence
Choi HK, Jung GW, Moon KH. et al	SS-Cream	1B
Atikeler, M.K., Gecit, I., Senol, F.A.	Prilocaine-lidocaine	1B
Damru, F	Ethyl aminibenzoate	
Berkovitch, M., Keresteci, A.G., Koren, G	Prilocaine-lidocaine	1B
Sahin et al	Prilocaine-lidocaine	3B
Atan, A., Basar, M.M., Aydoganli, L	Fluoxetine, Lidocaine	3B
Xin, Z.C., Choi, Y.D., Choi, H.K.	SS Cream	3B
Xin, Z.C., Choi, Y.D., Lee, S.H. et al	SS Cream	1B
Xin, Z.C., Choi, Y.D., Seong, D.H. et al	SS Cream	1B

Disorders fo Orgasm and Ejaculation in men Mc Mahon et al., committee 9A Textbook of Sexual Medicine



Topical Anaesthetic Creams and Sprays

IELT before and after using lignocaine-prilocaine cream



- To be used 20-30 min before & washed off immediately after
- Lignocaine 9.6% spray
- Lidocaine 2.5%-prilocaine 2.5% cream
- Lidocaine-prilocaine spray
- Dyclonine/alprostadil



- Young male
- Lifelong PE
- Frequent intercourse
- Counseling and technique
- Clomipramine 10-40mg daily, before dinner vs Paroxetine 10-20mg daily
 - Increase dose every 20 days, as per response/SE
 Dapoxetine / local anesthesia gel/spray



Treatment

Older male

- Less frequent intercourse
- Dapoxetine 30/60mg on demand
- Clomipramine on demand if SSRI not tolerated
- Spray/gel
- Tramadol 50-100mg if disturbed sleep



Treatment

- Male looking at quick solution
- Not tolerating SSRI
- For immediate relief/ situational or partner related PE
- Local anesthetic Gels or creams 30 min before procedure
- Wash 10 min later/use condom to avoid partner numbness



LUTS/CPPS

PE

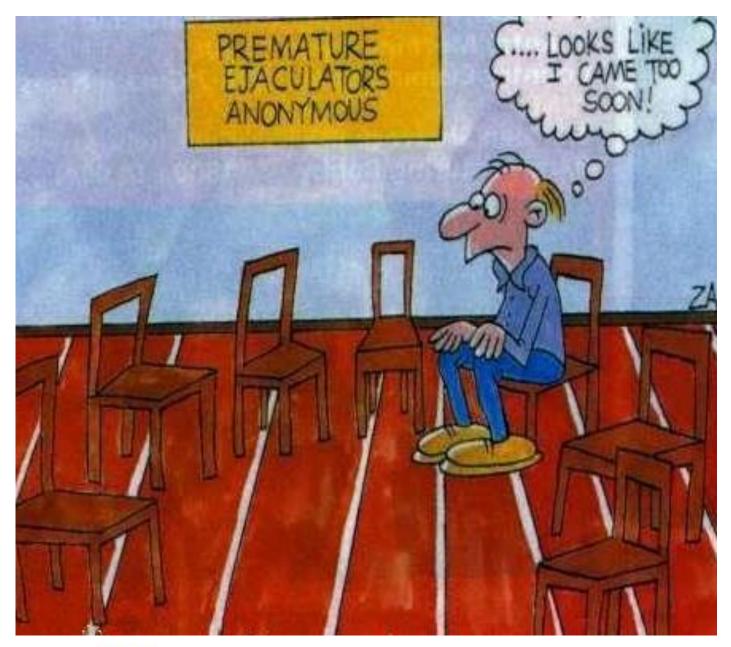
- Correct underlying cause
- On demand SSRI



If no benefit at maximum tolerated dose

- Switch to daily dose if using on demand SSRI
- Use long acting if on Dapoxetine / combinations
- Add local anesthetic
- Add PDe5/ICIVAD









All this waiting, and its over in a minute - just like our sex life



Summary

- Disorders of Libido/Arousal treatment of underlying cause if any/pyschosexual counselling
- ED if young, psychogenic- Counselling and PDE5i
- Older/organic ED may need HSIP/Penile implant, if PDE5i unresponsive
- Anorgasmia treatment of underlying cause, if any/pyschosexual counseling, medication
- Anejaculation medication/PVS/EE
- PE primary PE with daily use Chlomipramine/Paroxetine
- Acquired or infrequent use on demand Dapoxetine
- Quick fix solution anesthetic gels/spray

