Ejaculatory Disorders

**The GP’s role**
- GPs are typically the first point of contact for men with a disorder of ejaculation.
- The GP’s role in management of premature ejaculation (PE) includes diagnosis, treatment and referral.
- Offer brief counselling and education as part of routine management.

**How to approach the topic with patients**
- “Many men experience sexual difficulties. If you have any difficulties, I am happy to discuss them.”

**Overview**
- Ejaculatory disorders include premature ejaculation, delayed ejaculation, anorgasmia, retrograde ejaculation, anejaculation and painful ejaculation.
- Ejaculatory disorders result from a disrupted mechanism of ejaculation (emission, ejaculation and orgasm).
- Disorders of ejaculation are uncommon, but are important to manage when fertility is an issue.
- Etiologies of ejaculatory dysfunction are numerous and multifactorial, and include psychogenic, congenital, anatomic causes, neurogenic causes, infectious, endocrinological and secondary to medications (antihypertensive, psychiatric (SSRIs), α-blocker).

**Premature ejaculation**
- The most common ejaculatory disorder.
- Ejaculation that occurs sooner than desired.
- Primary (lifelong) PE.
  - Patient has never had control of ejaculation.
  - Disorder of lower set point for ejaculatory control.
  - Unlikely to diagnose an underlying disease.
- Secondary (acquired) PE.
  - Patient was previously able to control ejaculation.
  - Most commonly associated with erectile dysfunction (ED).
- Definition:
  - An intravaginal ejaculatory latency time (IELT) of less than about 1 minute (lifelong) or about 3 minutes (acquired)
  - An inability to delay ejaculation on nearly all occasions
  - Negative personal consequences such as distress.
- Primary (lifelong) PE is present from the first sexual experience; secondary (acquired) PE represents a significant reduction in latency time occurring later in life, after initially having an acceptable IELT.

**Clinical notes**
- PE is a self reported diagnosis, and can be based on sexual history alone.

**Diagnosis**

**Medical history**

**Sexual history**
- Establish presenting complaint (i.e. linked with ED).
- Intravaginal ejaculatory latency time.
- Onset and duration of PE.
- Previous sexual function.
- History of sexual relationships.
- Perceived degree of ejaculatory control.
- Degree of patient/partner distress.
- Determine if fertility is an issue.

**Medical**
- General medical history.
- Medications (prescription and non prescription).
- Trauma (urogenital, neurological, surgical).
- Prostatitis or hyperthyroidism (uncommonly associated).

**Psychological**
- Depression.
- Anxiety.
- Stressors.
- Taboos or beliefs about sex (religious, cultural).

**Physical examination**
- General examination.
- Genito-urinary: penile and testicular.
  - Rectal examination (if PE occurs with painful ejaculation).
- Neurological assessment of genital area and lower limb.

Refer to Clinical Summary Guide 1: Step-by-Step Male Genital Examination

**Management**

**Treatment decision-making should consider:**
- Aetiology
- Patient needs and preferences
- The impact of the disorder on the patient and his partner
- Whether fertility is an issue.
Management of PE is guided by the underlying cause.

**Primary PE**
- 1st line: SSRI, reducing penile sensation, e.g. using topical penile anaesthetic sprays (only use with a condom).
- 2nd line: Behavioural techniques and/or counselling.
- Most men require ongoing treatment to maintain normal function.

**Secondary PE**
- Secondary to ED: Manage the primary cause.
- 1st line: Behavioural techniques and/or counselling.
- 2nd line: SSRI, reducing penile sensation and/or PDE5 inhibitors.
- Many men return to normal function following treatment.
Treatment options

Erectile dysfunction (ED) treatment
- If PE is associated with ED, treat the primary cause (e.g. PDE5 inhibitors).

Behavioural techniques
- 'Stop–start' and 'squeeze' techniques, extended foreplay, pre-intercourse masturbation, cognitive distractions, alternate sexual positions, interval sex and increased frequency of sex.
- Techniques are difficult to maintain long-term.

Psychosexual counselling
- Address the issue that has created the anxiety or psychogenic cause.
- Address methods to improve ejaculatory control. Therapy options include meditation/relaxation, hypnotherapy and neuro-biofeedback.

Oral pharmacotherapy
A common side-effect of some selective serotonin reuptake inhibitors (SSRI) and tricyclic antidepressants is delayed ejaculation. SSRIs are commonly prescribed for PE; except for dapoxetine hydrochloride, all other SSRIs are used off-label for treating PE. Common dosing regimens are:
- Dapoxetine hydrochloride: A short-acting on-demand SSRI, the only SSRI approved for treatment of PE in Australia; 30 mg taken 1-3 hours before intercourse
- Fluoxetine hydrochloride: 20 mg/day
- Paroxetine hydrochloride: 20 mg/day. Some patients find 10 mg effective; 40 mg is rarely required. Pre-intercourse dosing regime is generally not effective
- Sertraline hydrochloride: 50 mg/day or 100 mg/day is usually effective. 200 mg/day is rarely required. Pre-intercourse dosing regime is generally not effective
- Clomipramine hydrochloride*: 25-50 mg/day or 25 mg 4-24 hrs pre-intercourse.
- Imipramine hydrochloride (10 mg, 25 mg tablets) 25-75 mg three times daily.
- Pheniramine maleate (50 mg tablet) 50 mg every second day.
- Decongestant medication such as pseudoephedrine; antihistamines such as cyproheptadine.
- Suggest 25 mg on a Friday night for a weekend of benefit (long acting).

PDE-5 Inhibitors: e.g. Sildenafil (50-100 mg), 30-60 minutes pre-intercourse if PE is related to ED.
- ‘Start low and titrate slow’. Trial for 3-6 months and then slowly titrate down to cessation. If PE reoccurs, trial drug again. If one drug is not effective, trial another.
- Combination treatment can be used.

Reducing penile sensation
- Topical applications: Local anesthetic gels/creams can diminish sensitivity and delay ejaculation. Excess use can be associated with a loss of pleasure, orgasm and erection. Apply 30 minutes prior to intercourse to prevent trans-vaginal absorption. Use a condom if intercourse occurs sooner.
- Lignocaine spray: this should be used with a condom to prevent numbing of partner’s genitalia.
- Condoms: Using condoms can diminish sensitivity and delay ejaculation, especially condoms containing anesthetic.

Referral
For general assessment refer to a specialist (GP, endocrinologist or urologist) who has an interest in sexual medicine.
- Refer to a urologist: If suspicion of lower urinary tract disease.
- Refer to an endocrinologist: If a hormonal problem is diagnosed.
- Refer to counsellor, psychologist, psychiatrist or sexual therapist: For issues of a psychosexual nature.
- Refer to fertility specialist: If fertility is an issue.

Delayed ejaculation
- Delayed ejaculation occurs when an ‘abnormal’ or ‘excessive’ amount of stimulation is required to achieve orgasm with ejaculation.
- Often occurs with concomitant illness.
- Associated with ageing.
- Can be associated with idiosyncratic masturbatory style (psychosexual).

Treatment2
- Aetiological treatment: Management of underlying condition or concomitant illness (e.g. androgen deficiency).
- Medication modification: Consider alternative agent or ‘drug holiday’ from causal agent.
- Psychosexual counselling.
- Testosterone levels.

Anorgasmia (no orgasm)
- Anorgasmia is the inability to reach orgasm
- Some men experience nocturnal or spontaneous ejaculation
- Aetiology is usually psychological

Treatment4
- Psychosexual counselling
- Medication modification: Consider alternative agent or ‘drug holiday’ from causal agent.
- Pharmacotherapy. Pheniramine maleate, pseudoephedrine or cyproheptadine may help but have a low success rate.
- Testosterone levels.

Retrograde “dry” ejaculation (orgasm with no ejaculation)
- Retrograde ejaculation occurs when semen passes backwards through the bladder neck into the bladder. Little or no semen is discharged from the penis during ejaculation.
- Causes include prostate surgery and diabetes.
- Patients experience a normal or decreased orgasmic sensation.
- The first urination after sex looks cloudy as semen mixes into urine.

Treatment6
- Counselling: To normalise the condition.
- Pharmacotherapy: Possible restoration of antegrade ejaculation and natural conception; note that pharmacotherapy may not be successful.
  - Imipramine hydrochloride (10 mg, 25 mg tablets) 25-75 mg three times daily.
  - Pheniramine maleate (50 mg tablet) 50 mg every second day.
  - Decongestant medication such as pseudoephedrine; antihistamines such as cyproheptadine.
- Medication modification: Consider alternative agent or ‘drug holiday’ from causal agent.
- Behavioural techniques: The patient may also be encouraged to ejaculate when his bladder is full, to increase bladder neck closure.
- Vibrostimulation, electroejaculation, or sperm recovery from post-ejaculatory urine: Can be used when other treatments are not effective, to retrieve sperm for assisted reproductive techniques (ART).
- Post-ejaculatory urinalysis — presence of sperm and fructose.
Anejaculation

- Anejaculation is the complete absence of ejaculation, due to a failure of semen emission from the prostate and seminal ducts into the urethra.
- Anejaculation is usually associated with normal orgasmic sensation.

Treatment

- Counselling: To normalise the condition.
- Medication modification: Consider alternative agent or ‘drug holiday’ from causal agent.
- Vibrostimulation or electroejaculation: Used when other treatments are not effective, to retrieve sperm for ART.
- Pharmacotherapy: Dopamine receptor agonists, seratonin antagonists, oxytocin and drugs that increase noradrenaline.
- Testosterone levels.
- Post-ejaculatory urinalysis — absence of sperm and fructose.
- MRI or ultrasound of seminal vesicles and post ejaculatory ducts (usually via the rectum).

Painful ejaculation

- Painful ejaculation is an acquired condition where painful sensations are felt in the perineum or urethra and urethral meatus.
- Multiple causes (e.g. ejaculatory duct obstruction, post-prostatitis, urethritis and autonomic nerve dysfunction).

Investigation

- Aetiological treatment (e.g. infections—prostatitis, urethritis): Implement disease specific treatment.
- Behavioural techniques: If no physiological process identified. Use of relaxation techniques (e.g. ejaculation in conditions when muscles can be relaxed), use of fantasy for distraction.
- Psychosexual counselling.
- Transurethral resection of the ejaculatory duct.
- Urine analysis (first pass urine – chlamydia & gonorrhoea urine PCR test; midstream urine MC&S).
- Cultures of semen (MC&S).
- Cystoscopy.
- Consider imaging (MRI and transrectal ultrasound) to assess for ejaculatory duct obstruction.

References