

Guidelines for the management of erectile dysfunction in adults

Erectile dysfunction (ED) is defined as the persistent inability to attain and maintain an erection sufficient to permit satisfactory sexual performance. Individuals presenting with ED should be **assessed** to determine any underlying cause and their cardiac risk of sexual activity.

Before pharmacological treatments are considered for ED, clinicians should:

- Discuss and advise on lifestyle changes that may help with symptoms (e.g. weight loss, regular exercise, smoking cessation, alcohol reduction)
- Optimise management of any underlying conditions (e.g. diabetes, cardiovascular disease)
- Consider whether the patient may be suffering from medication-induced ED

PDE-5 Inhibitors

1st line – Generic sildenafil – 50 mg when required (based on efficacy and tolerability, the dose may be increased to 100mg or decreased to 25mg)

2nd line - Generic tadalafil or generic vardenafil

- **On-demand tadalafil** – 10mg when required (based on efficacy and tolerability, this can be increased to the maximum dose of 20mg) **or**
- If a short-acting drug is preferred – **Vardenafil 10mg** when required (based on efficacy and tolerability, the dose may be increased to 20mg or decreased to 5mg)

NOTE: Once daily tadalafil (2.5mg and 5mg) is **not recommended** for prescribing for erectile dysfunction.

If treatment failure with at least 2 different oral PDE-5 inhibitors, **refer to a specialist** for consideration of alternative treatment options. A patient should receive 8 doses of a PDE-5 inhibitor at a maximum tolerated dose with sexual stimulation before treatment is classified as non-effective.

Selected List Scheme (SLS)

Prescribing drugs for ED, except generic sildenafil, is restricted nationally under the Selected List Scheme (SLS).

Patients with any of the following conditions meet SLS criteria for the treatment of ED:

- | | | |
|-----------------------|------------------------------------|--|
| ➤ Diabetes | ➤ Severe pelvic injury | ➤ A man who is receiving treatment for renal failure by dialysis |
| ➤ Multiple Sclerosis | ➤ Single gene neurological disease | ➤ A man who has had the following surgery – |
| ➤ Parkinson's disease | ➤ Spina bifida | ▪ Prostatectomy |
| ➤ Poliomyelitis | ➤ Spinal cord injury | ▪ Radical pelvic surgery |
| ➤ Prostate cancer | | ▪ Renal failure treated by transplant |

For further information on SLS, refer to Part XVIII B of the [Drug Tariff](#)

Private prescriptions for PDE-5 inhibitors (except generic sildenafil) can be considered for patients that do not meet the SLS criteria.

Over the counter purchase - Sildenafil 50 mg tablets and tadalafil 10mg tablets can be purchased from pharmacies and do not need a prescription.

Prescription quantities

The recommended quantity of on-demand PDE-5 inhibitors to be prescribed is 4 tablets per month

- This advice is based on research by the Department of Health (DoH) on impotence which showed that the average frequency of sexual intercourse in the 40-60 age range is once a week.
- Prescribers should be aware of the risks of excessive prescribing which can lead to unlicensed, unauthorised, diversion of supply (PDE-5 inhibitors have “street value”) and/or possible dangerous use.
- However, if the clinician in exercising their clinical judgement considers that more than one treatment a week is appropriate, then the clinician can prescribe that amount on the NHS.

Patient advice

- PDE-5 inhibitors have no effect in the treatment of ED in the absence of sexual stimulation.
- ED usually responds well to a combination of lifestyle changes and drug treatment. Lifestyle changes include (where applicable) losing weight, reducing stress, stopping smoking, reducing alcohol consumption, stopping illicit drug use and regular exercise.
- There is often a delay in onset of action with “when required” PDE-5 inhibitors (see below)

	Sildenafil	Tadalafil (on demand)	Vardenafil
Time taken before sexual activity	1 hour	At least 30 minutes	25–60 minutes
Time to onset of effect	25 minutes (range 12–37 minutes)	16 minutes to 36 hours	25 minutes (range from 15 minutes)
Duration of action	4–5 hours	Up to 36 hours	4–5 hours
Effect of food intake	Rate of absorption reduced by mean of 60 minutes when taken with food	Not affected	Rate of absorption reduced by median of 60 minutes when taken with high fat meals

Alternative options for the treatment of ED (specialist initiation only)

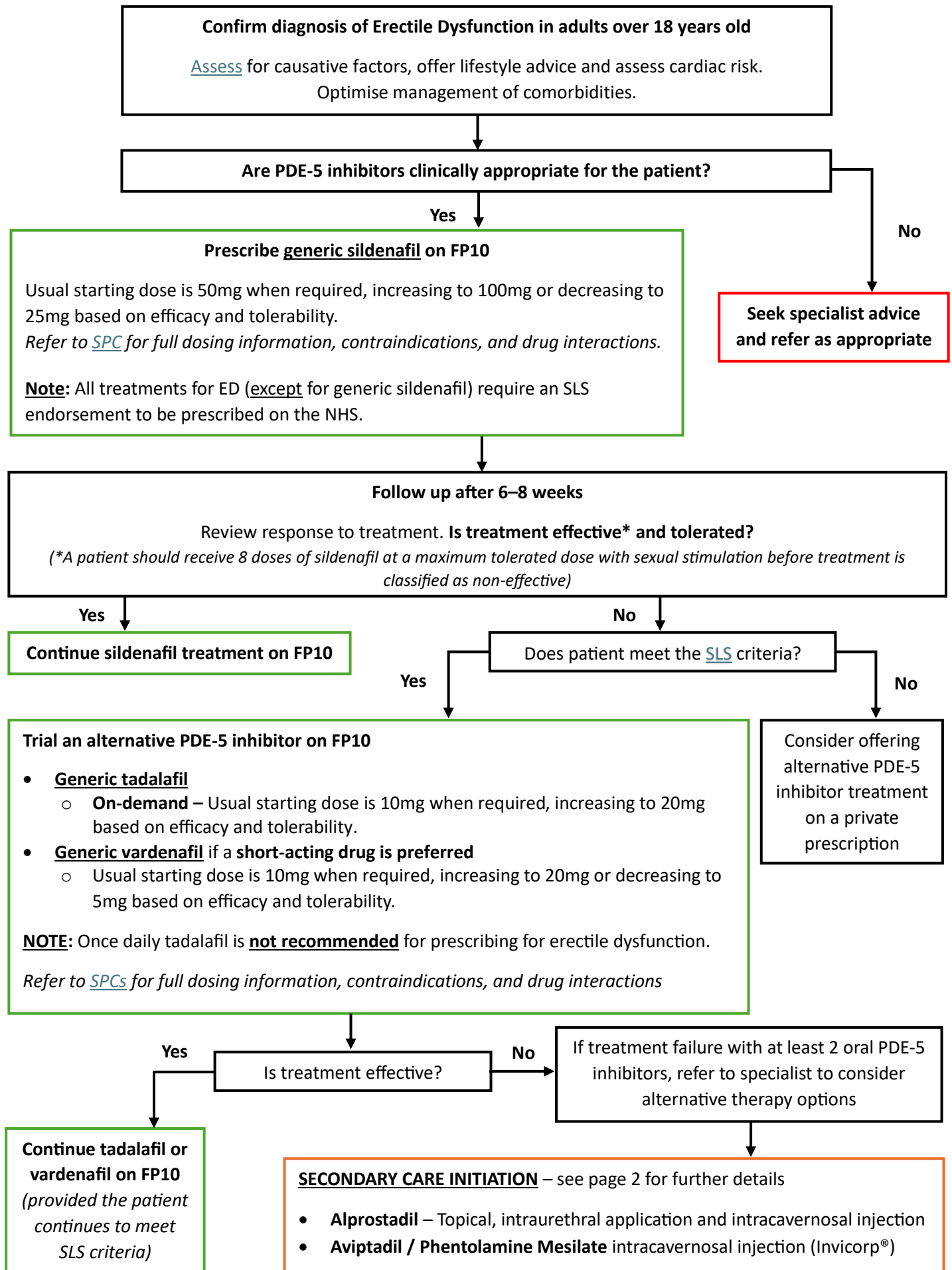
- Topical preparations and injectable therapies are alternatives to PDE-5 inhibitors for the treatment of ED for patients who have a contra-indication, intolerance or treatment failure with at least 2 oral PDE-5 inhibitors.
- Initiated by specialists following assessment with appropriate training and counselling provided.
- Primary care can be requested to continue prescribing once the patient is stabilised, and efficacy and tolerability have been confirmed.

Drug/Device	Formulation	Brand name	Formulary
Alprostadil	Topical cream	Vitaros®	✓
	Intraurethral application	MUSE®	✓
	Intracavernosal injection	Generic alprostadil powder for solution for injection	✓
		Caverject® Dual Chamber	✓
		Viridal® Duo	✓ 40mcg strength only
Aviptadil with phentolamine mesylate	Intracavernosal injection	Invicorp®	✓

All products listed above must only be prescribed on FP10 for patients who fulfil the NHS SLS criteria.

- In line with other on-demand ED treatments – 1 treatment per week is appropriate for most men.
- Combining alprostadil or Invicorp® with other ED treatments is not recommended.

Erectile Dysfunction Prescribing Flow Chart



References:

1. NICE Clinical Knowledge Summaries [Erectile dysfunction](#) March 2025
2. The British Association of Urological Surgeons (BAUS): https://www.baus.org.uk/patients/conditions/3/erectile_dysfunction_impotence, March 2025
3. British National Formulary (BNF) accessed via <https://bnf.nice.org.uk/>, March 2025
4. Summary of product characteristics for sildenafil, tadalafil, vardenafil, alprostadil and aviptadil with phentolamine mesylate, accessed via <https://www.medicines.org.uk/>, March 2025
5. British Society For Sexual Medicine, A practical guide on managing erectile dysfunction: <https://bssm.org.uk/wp-content/uploads/2024/05/ED-Practical-Guide-v3-for-BSSM.pdf>, March 2025
6. PrescQIPP, Male sexual dysfunction: Management of erectile dysfunction and premature ejaculation: <https://www.prescqipp.info/media/10fjs5tc/337-male-sexual-dysfunction-2-0.pdf>, March 2025
7. The Drug Tariff (March 2025) accessed via <https://www.nhsbsa.nhs.uk/pharmacies-gp-practices-and-appliance-contractors/drug-tariff>, March 2025
8. NHS England (October 2023) [Items which should not routinely be prescribed in primary care: policy guidance](#)
9. Department of Health, NHS Executive Health Service Circular 1999/148 June 1999
https://eclipsesolutions.org/UploadedFiles/166_HSC%201999%20Erectile%20Dysfunction.pdf

Version	1.0
Developed by	Pharmacy and Medicines Optimisation Team, Hertfordshire and West Essex (HWE) ICB
Approved by	Hertfordshire & West Essex Area Prescribing Committee
Date approved/updated	June 2025
Review date	This HWE APC recommendation is based upon the evidence available at the time of publication. This recommendation will be reviewed upon request in the light of new evidence becoming available.
Superseded version	Hertfordshire Prescribing Guidelines for phosphodiesterase type-5 (PDE-5) inhibitors for erectile dysfunction – HMMC, July 2014 Treatment of erectile dysfunction in primary care – WEMOPB (October 2017) Erectile dysfunction pathway (secondary care) – WEMOPB (November 2020)