

Surrey Heartlands Integrated Care System Area Prescribing Committee (APC)

Integrated Care Partnership - Surrey Downs, Guildford & Waverley, North West Surrey, and East Surrey Places & associated partner organisations.

Application for medicines described in CKS, NICE guidance and/or other national guidance

| Name of guidance ¹ | Erectile dysfunction - Prescribing Information | | | | | |
|-------------------------------|---|--|--|--|--|--|
| Available at | For treatment pathway, and all treatments unless indicated below: https://cks.nice.org.uk/topics/erectile-dysfunction/ For aviptadil/ phentolamine (Invicorp), Scottish Medicines Consortium: https://cks.nice.org.uk/topics/erectile-dysfunction/ For aviptadil/ phentolamine-mesilate-invicorp-fullsubmission-128417/ For daily tadalafil, removed from NHSE; Items which should not routinely be prescribed in primary care (FAQ) | | | | | |

The APC will have 4 options when asked to consider the application/s:

- 1. To accept
- 2. To reject
- 3. To allocate alternative traffic light classification
- 4. To request a full evidence review.

The traffic light status for the Surrey PAD is available at: Traffic Light Status (res-systems.net)

Background:

The erectile dysfunction treatment pathway was last revised by the Area Prescribing Committee in September 2018

A review is required for the following reasons:

- 1. CKS was updated in January 2024, changes can be seen on the CKS website (<u>Link</u>) Changes have been minor, but reflect a literature search conducted in November 2022 to identify evidence-based guidelines, UK policy, systematic reviews, and key randomized controlled trials (RCTs) published since the last revision of this topic. The topic has undergone minor restructuring to improve clarity and navigation. No major changes to clinical recommendations have been made. Detail about phosphodiesterase-5 (PDE-5) inhibitor dose escalation if initial treatment is ineffective or unsatisfactory has been added in the section on Follow-up.
- 2. A request was made by specialists to add aviptadil/phentolamine (Invicorp®) as a treatment option, as this injectable preparation appears to be less painful than the other injectable options currently approved at the Area Prescribing Committee
- 3. Daily tadalafil is no longer listed in the NHSE 'Items which should not routinely be prescribed in primary care: policy guidance'. Local guidance should reflect this change
- 4. Currently, only sildenafil is approved for penile rehabilitation. This restriction was based on cost when compared to tadalafil. With the price drop of tadalafil, it is proposed that, for the purpose of penile rehabilitation, sildenafil and tadalafil have equal first place in therapy.
- 5. Due to the low cost of sildenafil and tadalafil, is it reasonable to allow more than 1 dose per week? May reduce need for daily 2.5mg tadalafil.

Initial proposal was to remove the ED pathway in Primary Care, September 2018, from the PAD (<u>Link</u>), however in pre-consultation there were several comments supporting the pathway – APC to consider whether to update with current decisions or whether to remove.

This paper will:

- 1. Propose a new approval for aviptadil/phentolamine (Invicorp®)
- 2. Propose an updated statement on daily tadalafil* (may require different decisions for the 5mg and 2.5mg doses)
- 3. Add tadalafil as a treatment option for penile rehabilitation
- 4. Summarise the currently approved Formulary section for erectile dysfunction, confirming current traffic light classification
- 5. Update old traffic light classification from amber to BLUE, and from BLACK to non-Formulary and Do not prescribe
- 6. Change traffic light classification for alprostadil urethral sticks from BLUE for initiation by specialists to either BLUE on advice by specialists or GREEN

| Medicine name (generic and brand) | State licensed indication and if use in this application is licensed? | Place in therapy | Does it require dose titration? | Does it require monitoring? (SPC and SBS monitoring) | Recommended traffic light | Comments Must include information about: • whether a cost impact is expected and by how much. • impact on workload, e.g. monitoring. |
|--|--|--|--|--|--|---|
| Aviptadil 25microgram/ Phentolamine 2mg (Invicorp®) solution for injection | For the symptomatic treatment of erectile dysfunction in adult males due to neurogenic, vasculogenic, psychogenic, or mixed aetiology. | For use in those who have failed on oral therapies (oral phosphodiesterase type-5 inhibitors) and other noninjectable formulations of erectile dysfunction medications | No | No SLS only | NEW: BLUE | Evidence as approved by SMC (Link) Cost similar to other injectable treatments so do not expect cost increase. Currently approx. 800 prescrptions in SH per year at a cost of £50K Note that Invocorp® comes in packs of 5 and not 1's and 2's as other injectables |
| Alprostadil (Caverject® Viridal Duo®, Caverject Dual Chamber®) | Treatment of erectile dysfunction in adult males due to neurogenic, vasculogenic, psychogenic or mixed aetiology. | For use in those who have failed on oral therapies (oral phosphodiesterase type-5 inhibitors) and other noninjectable formulations of erectile dysfunction medications | No, but dose increases may be required | No SLS only | No Change: BLUE | |
| Alprostadil Stick MUSE® | Treatment of erectile dysfunction in adult males due to neurogenic, vasculogenic, psychogenic or mixed aetiology. | For use in those who have failed on oral therapies (oral phosphodiesterase type-5 inhibitors) | No, but dose increases may be required | No SLS only | Change from BLUE for initiation by specialists to either BLUE on advice by specialists or GREEN After alprostadil cream | I would support MUSE as Blue- on advice as the vast majority of patients trying the intraurethral MUSE pellet have already tried intraurethral Vitaros & so are adept at intraurethral insertion & so do not need a demonstration on how to insert MUSE. |

| Alprostadil cream (Vitaros®) | Treatment of men ≥ 18 years of age with erectile dysfunction, which is the inability to achieve or maintain a penile erection sufficient for satisfactory sexual performance. | For patients who do not respond to PDE-5 inhibitors. | No | No SLS only | No Change: GREEN | |
|---------------------------------------|---|--|--|----------------|---|---|
| Sildenafil | Indicated in adult men with erectile dysfunction, which is the inability to achieve or maintain a penile erection sufficient for satisfactory sexual performance | =1 st line | No, but dose increases may be required | No | No Change: GREEN | For patients who do not meet SLS criteria, only sildenafil is currently approved for prescribing for those patients |
| Tadalafil for 'as required' use | Treatment of erectile dysfunction in adult males. | Change to = 1 st line from 2 nd line | No, but dose increases may be required | No SLS only | New Place in therapy GREEN | |
| Tadalafil for 'daily' use | Treatment of erectile dysfunction in adult males. | NHSE restriction removed on the basis that costs are comparable to 'as required medication' but notes that there may be considerable cost differences . 5mg cost is comparable to other treatments, 2.5mg still much more expensive. | No, but dose reduction may be required from 5mg initial dose | No SLS only | 5mg daily tadalafil New Place in therapy GREEN 2.5mg daily tadalafil No Change: Non-Formulary: use 'as required doses | |

| Vacuum pump | Treatment of erectile dysfunction in adult men | Most useful in patients with nerve damage, whether by surgery or for medical reasons. | No | No SLS only | GREEN | |
|-------------|--|---|---|----------------|--|---|
| Vardenafil | Treatment of erectile dysfunction in adult men. Erectile dysfunction is the inability to achieve or maintain a penile erection sufficient for satisfactory sexual performance. | More expensive than sildenafil and tadalafil, long acting like tadalafil, but interacts with food so no advantage | No, but dose increases may be required | No SLS only | No Change: Non- Formulary | Now available as a generic. For patients unwilling to change to tadalafil, ensure generic prescribing |
| Avanafil | Treatment of erectile dysfunction in adult men. | More expensive than sildenafil and tadalafil, no place in Therapy identified | No, but dose increases may be required | No SLS only | No Change: Non- Formulary | Branded only in drug tariff |
| Sildenafil | Penile rehabilitation | | Dose to be recommended by specialists | No | Change of traffic light classification from Amber* to BLUE | |
| Tadalafil | Penile rehabilitation | As price is now similar to sildenafil, allow use for penile rehabilitation | Dose to be recommended by specialists (not daily 2.5mg) | No SLS only | New: BLUE | |

References:

- 1. Aviptadil with phentolamine mesilate | Drugs | BNF | NICE
- 2. Prescribing information | Erectile dysfunction | CKS | NICE
- 3. Surrey PAD Guidelines : Erectile dysfunction (res-systems.net)
- 4. Bulletin 322: Tadalafil once daily | PrescQIPP C.I.C
- 5. Aviptadil/phentolamine mesilate (Invicorp) (scottishmedicines.org.uk)
- 6. Dr N Valentine, Psychosexual Medicine, Urology Department, RSCH (verbal communication and written statement re: Muse)*
- 7. Mr. Dimitrios Moschonas, Consultant Urologist, Clinical Lead, RSFT (verbal communication)*

Declaration of interest:

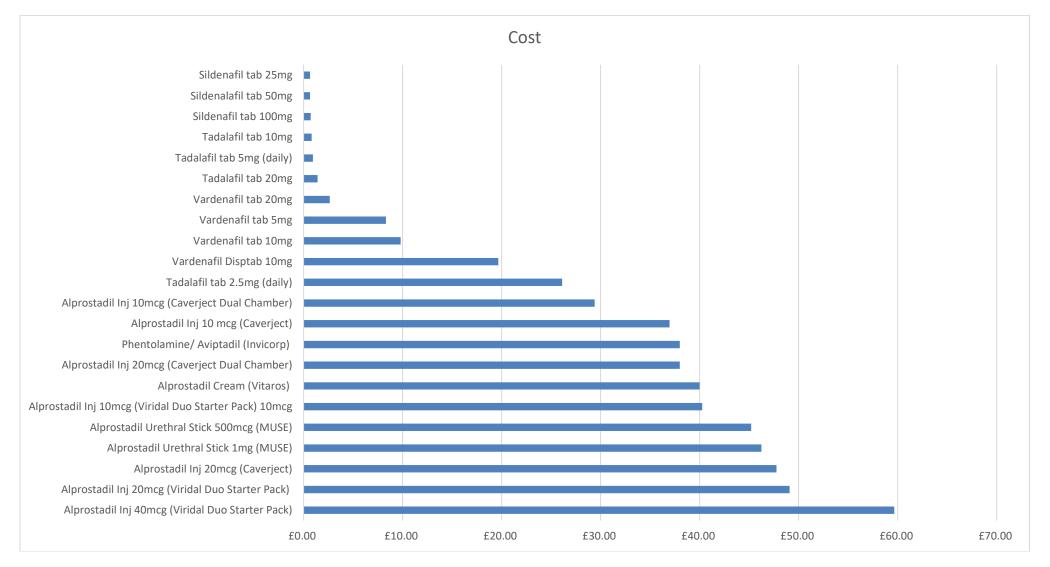
| | Name | Role | Date | Declaration of interests (please give details belo | |
|-------------|------|--------------------------|------------|--|--|
| Prepared by | KM | MRU UNIT Ph tech | April 2024 | None | |
| Reviewed by | CJ | MRU UNIT Lead Pharmacist | April 2024 | None | |

Explanation of declaration of interest:

None.

^{*}Further discussion regarding penile rehabilitation to be presented at future APC.

Appendix 1 Cost comparison: Cost per month is for 4 doses per month, unless endorsed with (Daily) in which case the cost is for 28 doses



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