

## **SPHERE Bladder and Bowel Service**

# **Medications Used to Treat Bladder Dysfunction**

## Assessment

• It is important to know what medication an individual is taking, as many drugs can affect the rate of urine production or bladder and/or bowel function

## See Information Leaflets: -

- Medication Impact on the Bladder
- Medication Impact on the Bowel
- Constipation and Laxatives
- Medication can also worsen constipation and thus worsen urge or overflow incontinence
- Information relating to all medication can be found in the BNF
- It is vital to be aware of what prescribed and non-prescribed medication an individual is taking, as bladder and bowel symptoms can be a side-effect of medication
- Older people often take medications which are prescribed for a variety of conditions which have the potential to interact and cause side effects
- Before prescribing or recommending medication, the prescriber must be aware of a person's current medication so as to avoid drug errors or interactions

# Medications Commonly used to Treat Urge Incontinence

- If bladder training is unsuccessful, medication is recommended
- NICE recommends immediate-release oxybutinin as the first line treatment if bladder training has been ineffective oxybutinin should be avoided in the over 65 age group.
- However, some of the newer, extended release anti-muscarinics (also known as anti-cholinergics) are reported to have a lower side effect profile
- In women with symptoms of urgency, frequency and nocturia who also have vaginal atrophy, topical oestrogen may be of benefit

# **Anti-Muscarinic Medication**

- Anti-muscarinic medication can reduce the sensation of urgency and unwanted bladder contractions
- Anti-muscurinics act by blocking nerves that control detrusor muscle contractions and allow relaxation of the bladder's smooth muscle
- A bladder scan should be carried out prior to prescribing anti-muscurinic medication, to ensure the bladder is emptying correctly.
- 6-8 weeks after commencing anti-muscurinics, a bladder scan should be repeated.

#### Examples of anti-muscarinic medication are: -

- Oxybutinin: should not be offered to people over the age of 65
- Tolterodine
- Darifenacin
- Fesoteridone
- Solifenacin
- Trospium Chloride
- Common side-effects include dry mouth, dry eyes, constipation and gastric disturbances
- Caution is necessary in frail older people as cognitive function may be affected
- Agree a review date and ask the individual to complete a bladder diary for at least 3 days prior to review
- This is an essential part of monitoring progress
- Doctors are advised to calculate the individual's overall anti-cholinergic load or burden when considering prescribing an anti-muscurinic, especially in older people who are already on a number of medications. More information can be found here: <u>http://www.polypharmacy.scot.nhs.uk/hot-topics/anticholinergics/</u>

## Mirabegron

Mirabegron (Betmiga) is a beta-3-andrenoceptor agonist and causes the bladder muscle to relax, allowing it to fill and store urine. NICE recommend this when anti-muscurinics are contra-indicated or ineffective, or have unacceptable side effects.

More information can be found in NICE guidance – Mirabegron for treating symptoms of overactive bladder

https://www.nice.org.uk/guidance/ta290

#### Medications for Treatment of Benign Prostatic Hyperplasia

- Tamsulosin helps with bladder emptying by relaxing the muscles in the bladder neck
- Finasteride can cause prostate gland to reduce in size

## Management of Severe Urge Urinary Incontinence

- If symptoms of urge urinary incontinence fail to respond to conservative therapies and medication, referral to a hospital consultant may be indicated
- Botox is a new and effective treatment for the management of severe urge incontinence
- It is injected using a cystoscope into various points of the bladder wall and works by partially paralysing the detrusor muscle, thus eliminating excessive detrusor contractions
- The effect is temporary and may need to be repeated
- Individuals should be advised that the bladder may not empty following the procedure and that they
  need to self-catheterise
- Botox is not yet licensed for use in the bladder, but is being widely used with much success
- In severe cases, augmentation or sacral nerve stimulation surgery may be considered