# Barnsley GP Update – rUTI and Female LUTs

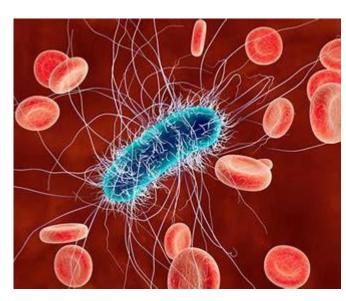
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## Recurrent UTIs

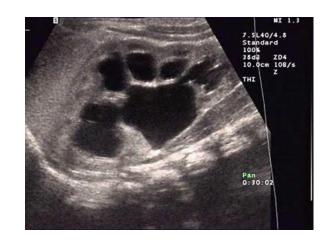
 Definition: two or more episodes of UTI in six months or three or more episodes in one year

- Risk Factors:
  - In young and pre-menopausal women include:
    - Sexual intercourse.
    - Past medical history of UTI in childhood.
    - Having a mother with history of UTI.
  - In post-menopausal and elderly women include:
    - History of UTI before menopause.
    - Urinary incontinence.
    - Atrophic vaginitis.
    - Cystocele.
    - Increased post-void urine volume.
    - Urine catheterisation and reduced functional status in elderly institutionalised women.



## Investigation

- History dysuria, frequency and urgency; usually recovers with antibiotic use
- Must check for red flag symptoms and if patient meets the 2WW criteria
- Examination palpable bladder, gynae masses
- Urinalysis and MSU



 US Renal tracts – post void residual measurement and any evidence of hydronephrosis

## Patients who may require referral

- Male patients
- Female patients meeting 2WW criteria
- Female patients with a history of surgical treatment for stress incontinence/prolapse using mesh
- Unusual microbiology results
- Neuropathic patients
- Post void residual >100 ml



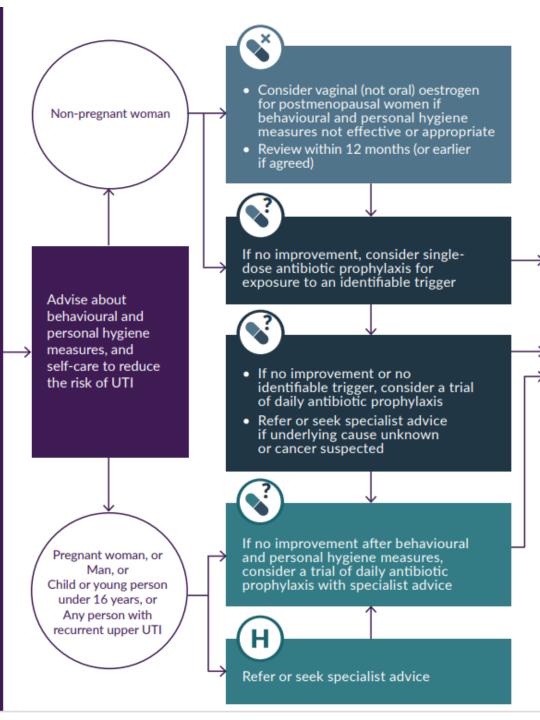
## Does Flexible Cystoscopy have a role?

 Not as a routine investigation – very low diagnostic yield (<1.5%)</li>

Invasive procedure with risk of infection

• Indications: Patients meeting 2WW criteria, male patients, neuropathic patients





#### When single-dose antibiotic prophylaxis given, advise:

- how to use
- possible adverse effects of antibiotics, particularly diarrhoea and nausea
- · returning for review within 6 months
- seeking medical help if symptoms of an acute UTI develop

#### When a trial of daily antibiotic prophylaxis given, advise:

- risk of resistance with long-term antibiotics
- possible adverse effects of long-term antibiotics
- · returning for review within 6 months
- seeking medical help if symptoms of an acute UTI develop

#### Review at least every 6 months should include:

- · assessing prophylaxis success
- reminders about behavioural and personal hygiene measures, and self-care
- discussing whether to continue, stop or change antibiotic prophylaxis

NICE uses 'offer' when there is more certainty of benefit and 'consider' when evidence of benefit is less clear.



#### Background

- Recurrent UTI includes lower and upper UTI
- Recurrent UTI may be due to relapse (same strain of bacteria) or reinfection (different strain or species of bacteria)



#### Self-care

- Non-pregnant women may wish to try D-mannose
- Non-pregnant women may wish to try cranberry products (evidence uncertain)
- Under 16s may wish to try cranberry products with specialist advice (evidence uncertain)
- Advise people taking cranberry products or D-mannose about the sugar content of these products
- Inconclusive evidence for probiotics



#### Treatments

- Vaginal oestrogen take account of severity and frequency of symptoms, risk of complications, benefits for other symptoms (vaginal dryness), possible adverse effects (breast tenderness and vaginal bleeding), unknown long-term endometrial safety and preferences for treatment
- Antibiotics ensure any current
  UTI is treated and take account
  of severity and frequency of
  symptoms, risk of complications and
  long-term antibiotic use, previous
  urine culture and susceptibility
  results, previous antibiotic use,
  local antimicrobial resistance,
  and preferences for treatment

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## Which prophylactic antibiotic?

MSU sensitivities are very helpful



NICE guidelines: Trimethoprim or Nitrofurantoin first line;
 Amoxicillin or Cefalexin

Cycling?

 Caution – long term use of nitrofurantoin can result in pulmonary fibrosis



## Methenamine Hippurate

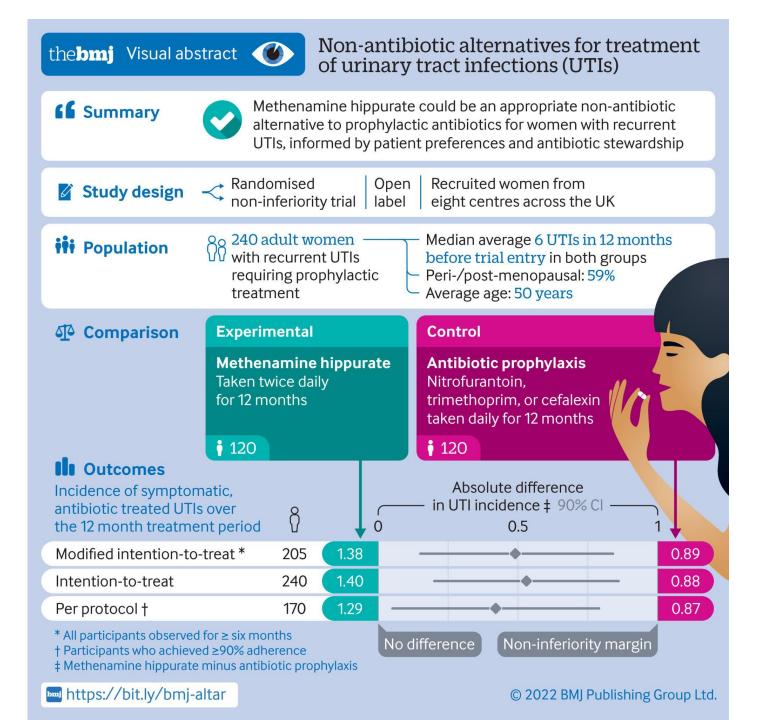
Prescribe 1g BD PO



 Warn can cause upper GI discomfort on initiation but does settle with ongoing use

 Combine with Vit C supplementation to change urinary pH (stop cranberry!)

Long-term safe medication – becomes less effective if LFTs deranged

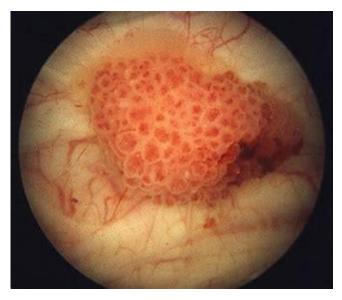


## Pitfalls

Is it really recurrent UTI?

- Negative MSUs
- Visible Haematuria
- Gynae pathology
- Symptoms not settling with antibiotics





## Female LUTs

 OAB – symptom complex of urinary urgency, usually with urinary frequency and nocturia, with or without urgency urinary incontinence

 Stress Incontinence - involuntary loss of urine on effort or physical exertion (e.g sporting activities) or on sneezing or coughing

Mixed Incontinence

• Voiding Dysfunction - abnormally slow and/or incomplete micturition

## Initial Assessment

#### **History**

- Characterise symptoms as storage or voiding symptoms
- Gynae History endometriosis
- Red Flags neurological symptoms, visible haematuria, persistent bladder pain, previous interventions for incontinence

#### **Examination**

- Abdominal ?palpable bladder
- PV ?gynae masses or evidence of prolapse
  - atrophic vaginitis



## OAB - Management in Primary Care

- Lifestyle modifications
  - Reduce/Cut out caffeinated drinks/fizzy drinks
  - Weight loss
  - Reduce alcohol intake
- Anticholinergic

Mirabegron

• Consider topical vaginal oestrogen in post-menopausal women

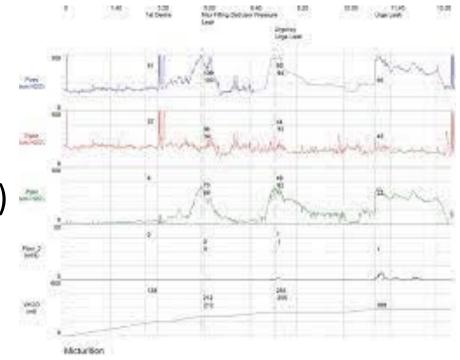
## When to refer and what do we do?

 Refer if symptoms refractory to lifestyle modifications and pharmacology and patient fit/willing for further intervention

Urodynamics to confirm detrusor overactivity

Onabotulinum toxin A (available BDGH/MidYorks)

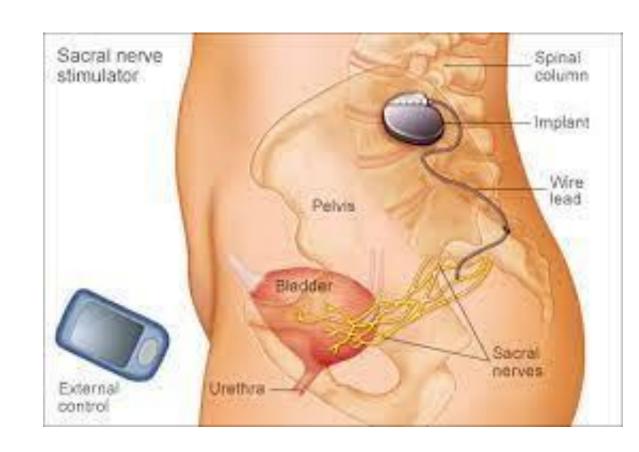
Sacral Neuromodulation (available MidYorks)



## Sacral Neuromodulation

Two Stage Procedure:

- PNE test phase, temporary lead placement and assessment over 3 weeks
- If successful apply for funding and list for permanent implant



## Stress Urinary Incontinence – Primary Care

- Lifestyle Modifications
  - Weight loss
  - Stop smoking
  - Impact of other conditions (e.g. COPD)
- If there is an overactive component to incontinence treat as for OAB
- Continence team referral pads assessment and management of vulval health
- Topical vaginal oestrogen in post-menopausal women

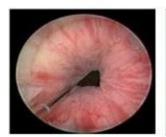
## When to refer and what do we do?

- Refer women with stress incontinence refractory to lifestyle modifications or those with recurrent stress incontinence or those with mixed incontinence who are fit for surgical intervention
- Referral for supervised pelvic floor exercises by physiotherapists
- Urodynamics
- Flexible cystoscopy if previous mesh surgery
- Offer surgical treatment

## Surgical Options

#### **Urethral Bulking**

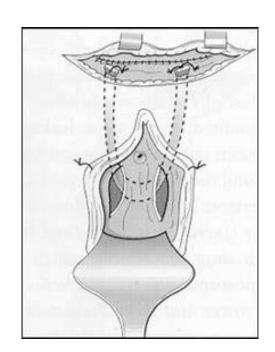
- Minimally invasive
- Coaptation of urethra
- May need recurrent treatment





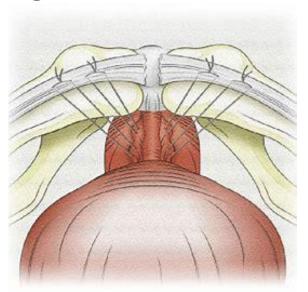
#### **Autologous Fascial Sling**

 Rectus Fascia used as a sling support



#### **Burch Colposuspension**

 Sutures used to lift paravaginal tissue to Cooper's ligament



## Voiding Dysfunction in Women

- Women with straining to void, raised post void residuals, episodes of acute urinary retention, recurrent infections
- Need to rule out reversible causes (constipation and medication) and to check for red flag symptoms (new neurological symptoms, gynae masses)
- Difficult condition to manage
- Treatment options Intermittent self-catheterisation, indwelling catheter (SPC) or sacral neuromodulation

## Pitfalls

 Failure to recognise red flag symptoms (particularly neurological symptoms)

 Recognition of previous surgical intervention for stress incontinence (particularly mesh procedures)

Consider management of prolapse

Consider vulval health





## Thank you!