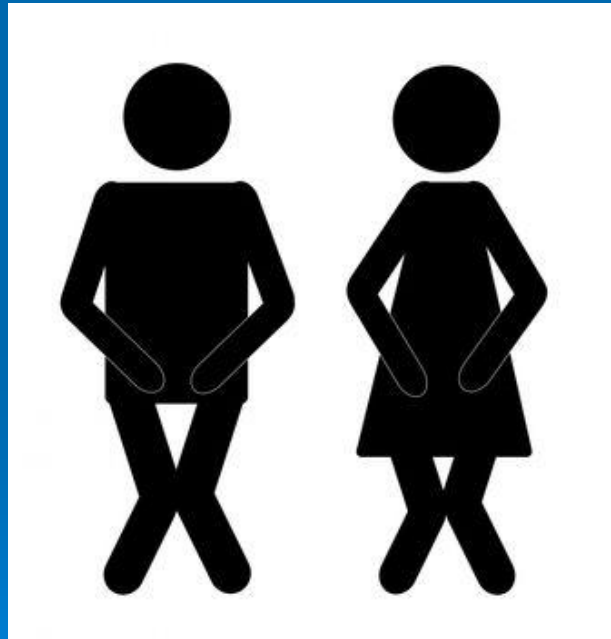
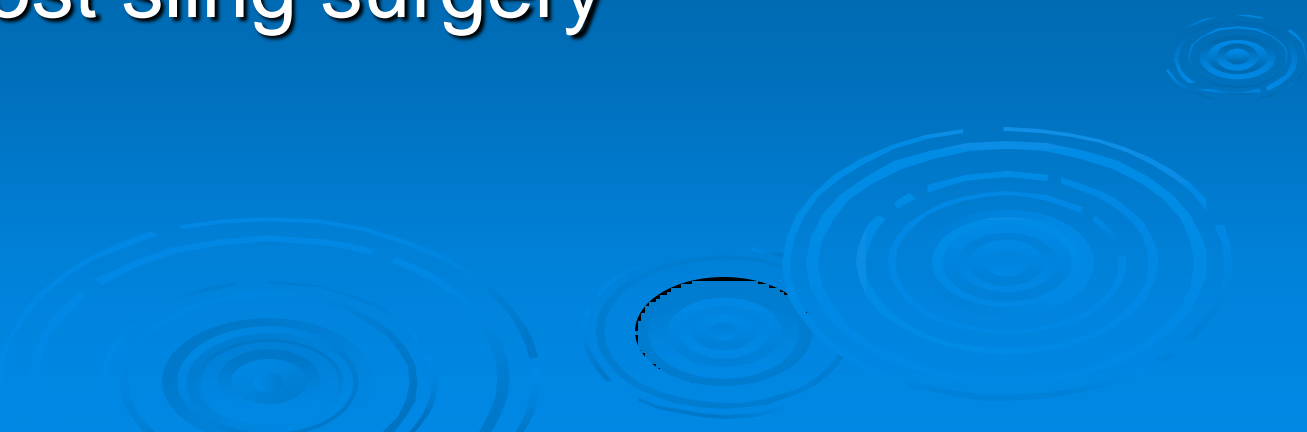


# THE OVERACTIVE BLADDER – A MATTER THAT JUST WON'T WAIT

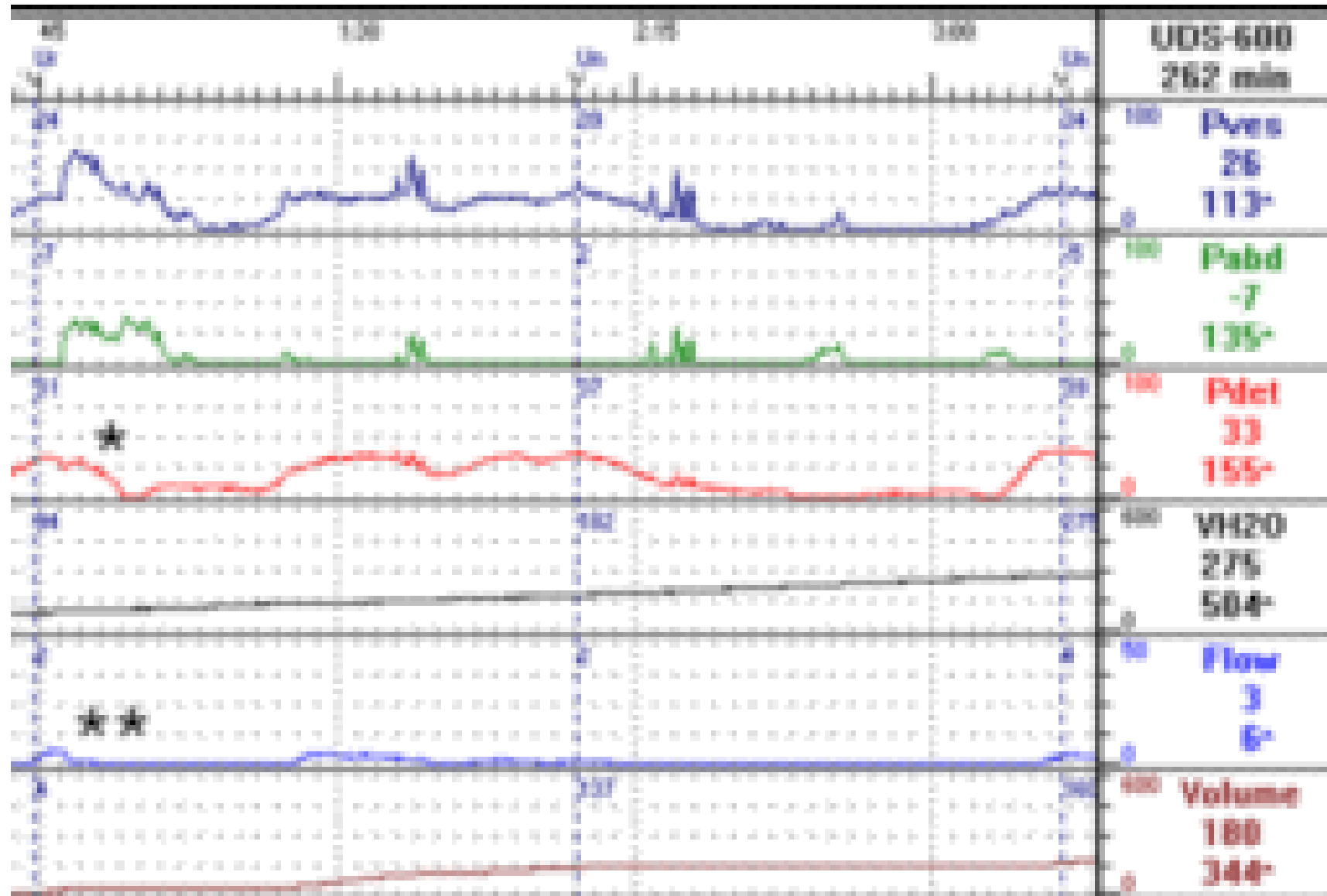


ANNE-MARIE DAVIES MD FRCS (UROL)

- Investigation and treatment of idiopathic urgency
  - Addressing mixed urinary incontinence (MUI)
  - Urgency post sling surgery
- 

# OVERACTIVE BLADDER SYNDROME

- OAB is defined by ICS as urgency, with or without urgency incontinence, usually with frequency and nocturia.
- A symptomatic diagnosis, on history alone, suggestive of UDS proven DO, in the absence of proven infection or other pathology
- DO is a urodynamic observation of involuntary detrusor contractions during the filling phase which may be spontaneous or provoked/phasic or terminal



\* Detrusor Instability

\*\* Leak


# MANAGEMENT OF OAB HISTORY

- Frequency, urgency, nocturia
- Frequency in SI
- Other causes - infection, stones, chronic retention, CIS, neurological deficit

# MANAGEMENT OF OAB EXAMINATION

- Gross leak on coughing
- Prolapse
- Oestrogen deficient tissues
- Pelvic floor contraction


# GOALS OF TREATMENT

- To prevent or reduce episodes of urgency when access to a toilet is limited
  - To prevent or reduce episodes of incontinence
- 
- The background of the slide features several concentric, light blue circular ripples that resemble water droplets hitting a surface, positioned in the lower right quadrant.





# MANAGEMENT OF OAB CONSERVATIVE

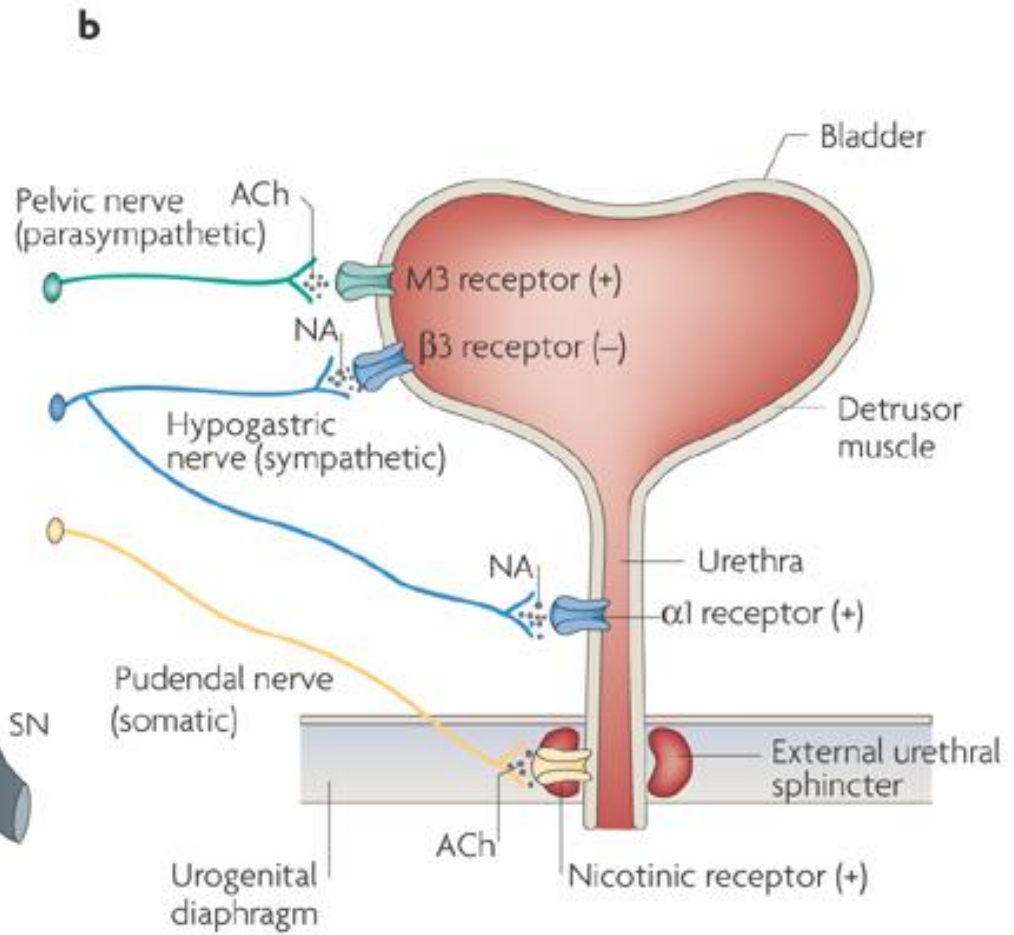
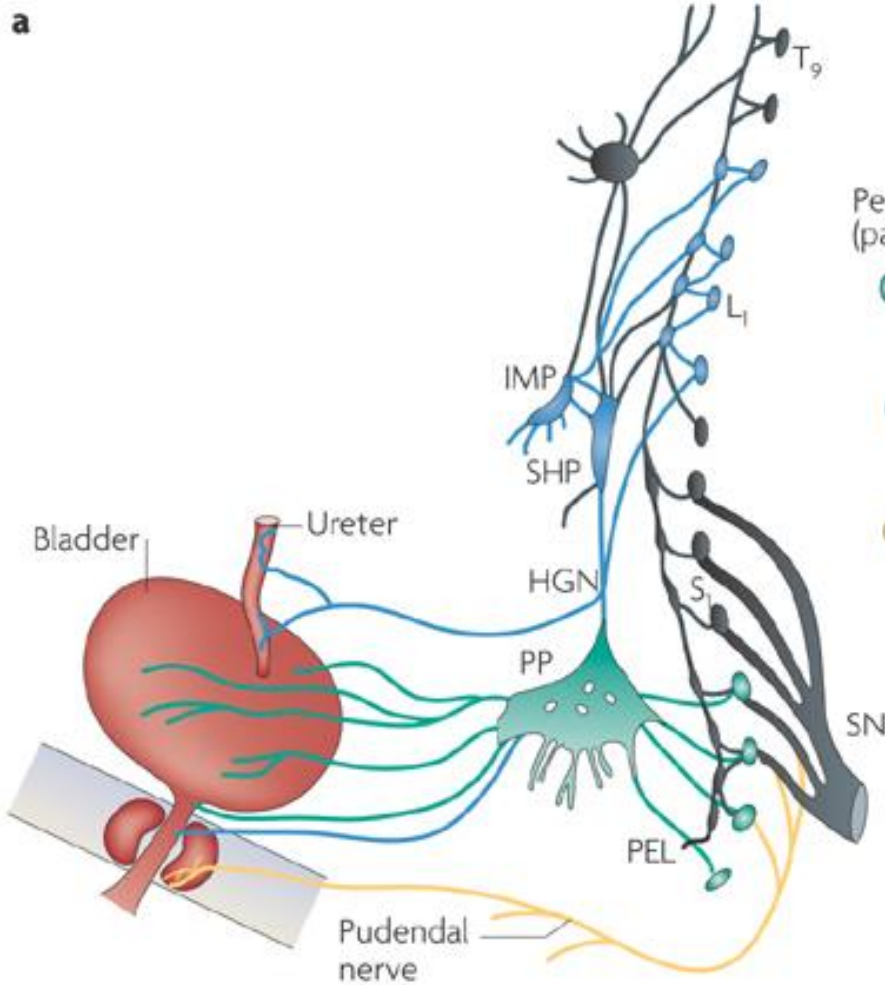
- Voiding diaries
  - PVR
  - Fluid management
  
  - Pelvic floor exercises
  - Bladder drill 6/52
- 

# Management of OAB

## Medical

Anticholinergics mainstay of treatment

- All decrease incontinence episodes and frequency and increase volume voided
- Dry mouth, constipation, blurred vision, CNS, indigestion



# Anticholinergics

Cure/improvement	RR 1.41 / 1.39
Incontinent episodes/24hr	-0.6 / -0.54
Voids/24hr	-0.6 / -0.69
Dry mouth	RR 2.56 / 3.00

Herbison et al BMJ 2003 326(7394):841

Cochrane database 2006(4):CD003781

# Anticholinergics

- Oxybutinin - flexible dosing up to tolerance
- Tolterodine - good efficacy/side effect balance. Safe in BOO. Few cognitive SE
- Tropsium chloride - doesn't cross blood-brain barrier. New once daily formulation

# Anticholinergics

- Solifenacin - STAR greater efficacy than tolterodine (urgency) slightly greater side effects
- Fesoterodine - structurally related to Tolterodine. Flexible dosage
- Transdermal oxybutinin - Decreased side effect profile

# Anticholinergics

Extended release – less dry mouth

Tolterodine > oxybutinin RR 0.75


Tolterodine = transdermal oxybutinin

Cochrane Database 2005(3):CD005429

Novara et al Eur Urol 2008 54(4):740-63

# Management of OAB

## Medical

- Best results when combined with conservative measures
  - Realistic goals when prescribing
  - Patients respond differently to different drugs
  - Review
- 



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"Urology Department. Can you hold?"

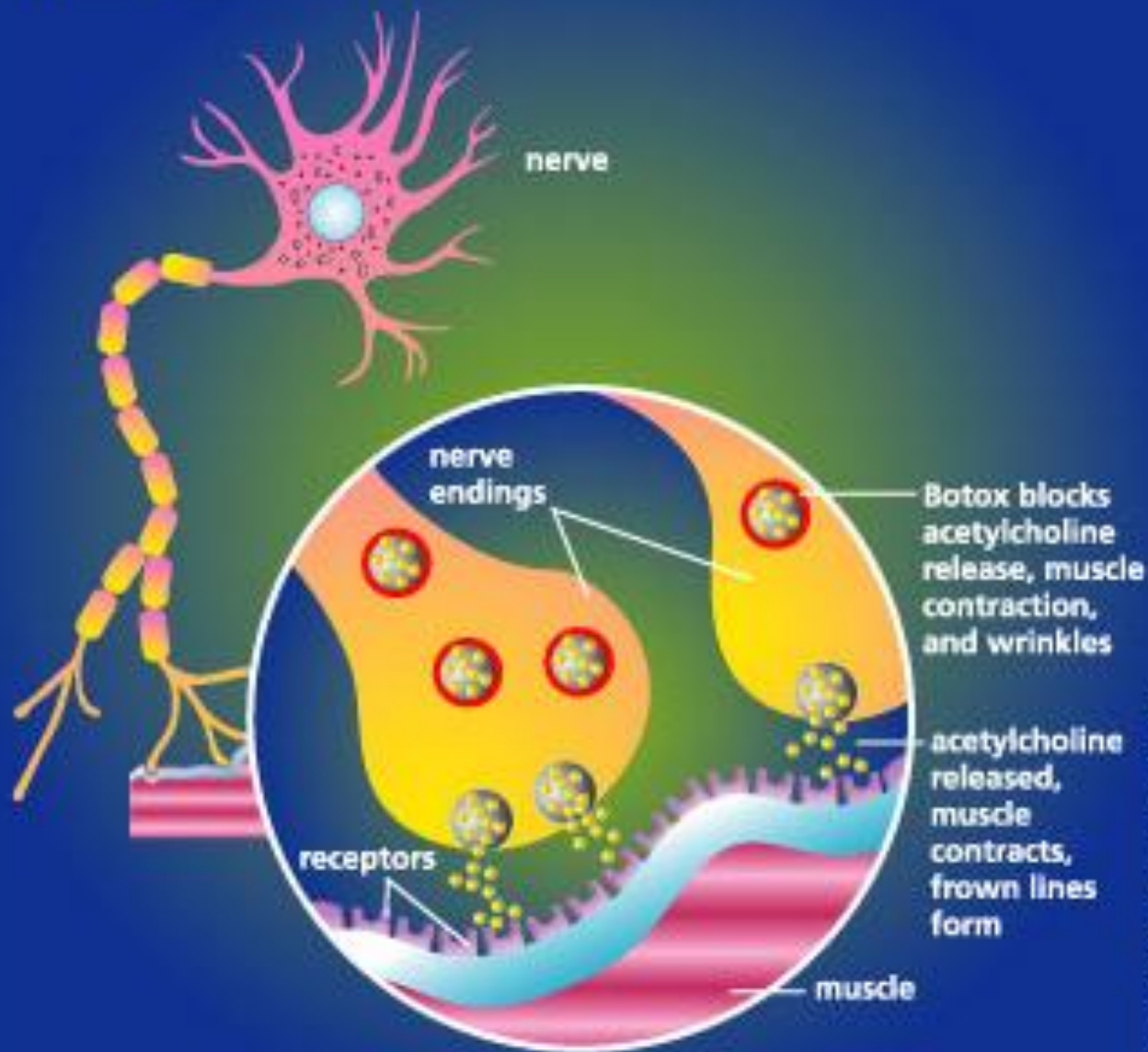
# Management of OAB

## Botox A

- Used in Switzerland in 2000 for neurogenic overactivity
- Use extended to IDO
- Efficacy up to 80%, Retention 5%
- Lasts for 6-9 mths
- Longterm effects in bladder not known



# How Botox Works




Infographic by Renée Gordon

# APPLICATION OF BOTOX


- Injected at 30 - 40 sites, sparing trigone
- 100-300U
- GA or LA
- Daycase



# EFFECTS OF TREATMENT

- Cessation of urge
  - Decreased frequency
  - Continent
  
  - Slow obstructive voiding
  - Residuals and UTI
  - Retention
  - Rare atypical / systemic reactions
- 

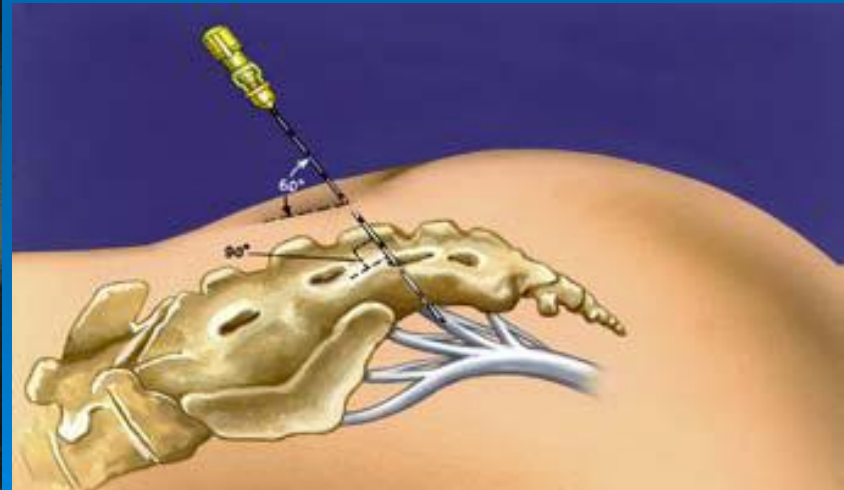
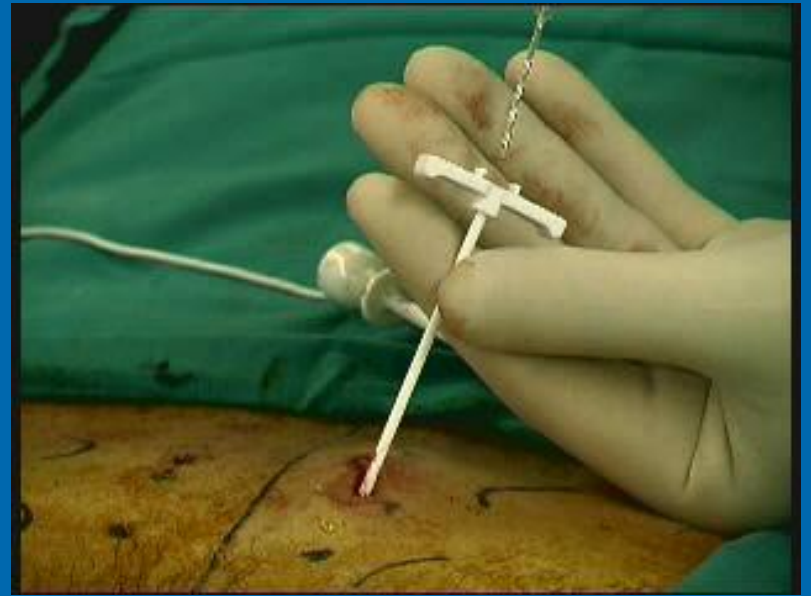
# CONCLUSIONS

- Promising treatment for refractory OAB
  - Clear counselling essential
  - Outcomes less good if mixed incontinence
  - Role in IC unclear
  - Too easy to deliver?
- 

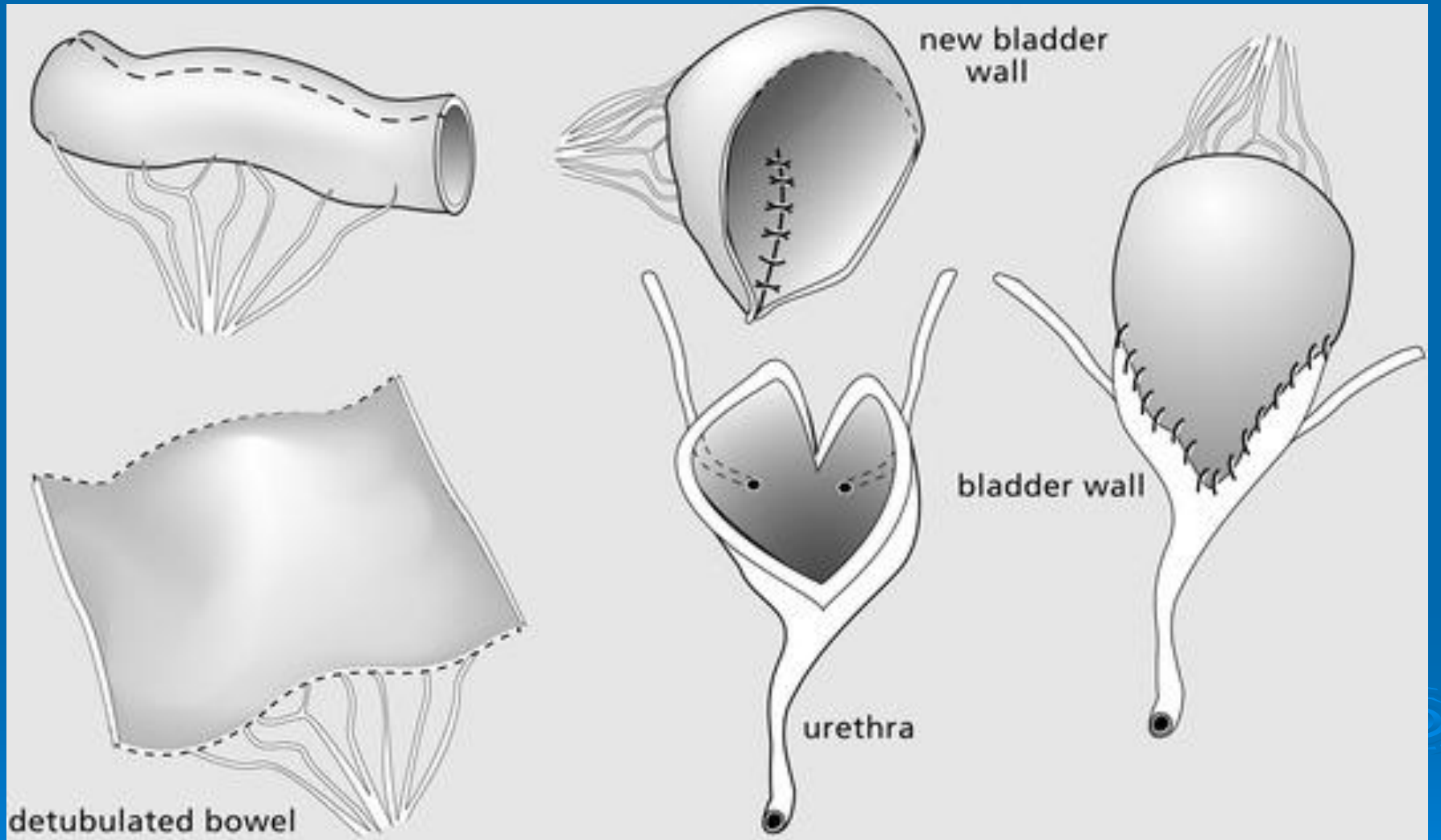
# Management of OAB

## Surgical

- Assessment with Urodynamics
- Neuromodulation - transforamen tined lead with stimulation of S3/S4
- Preimplant test
- 30% longterm failure
  
- Clam ileocystoplasty
- Diarrhoea/ UTI / ISC / malignant change







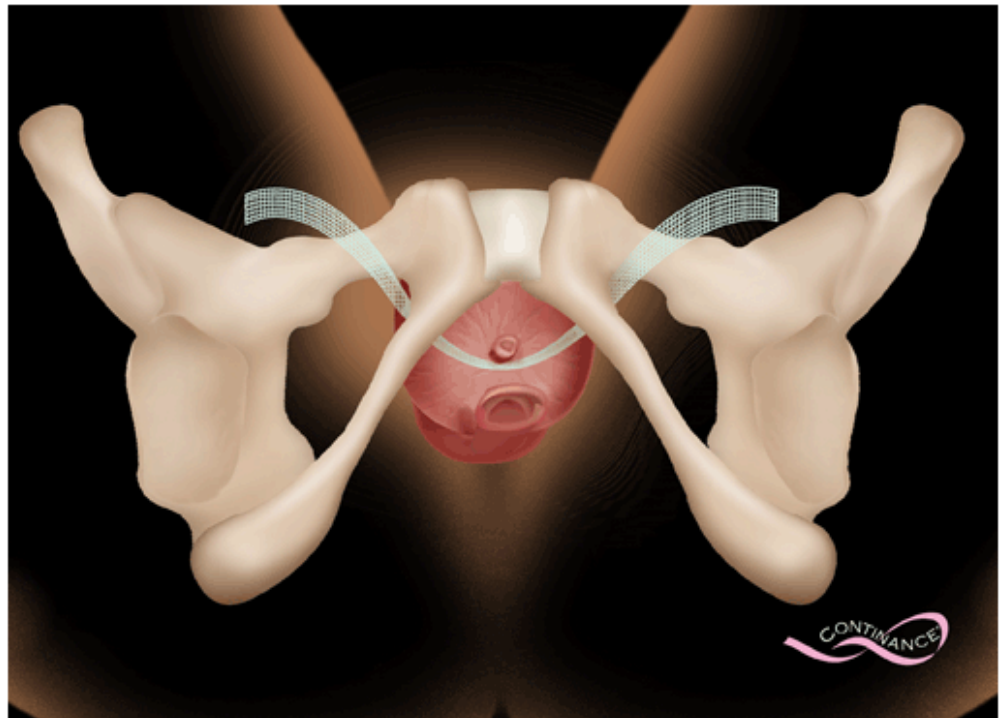
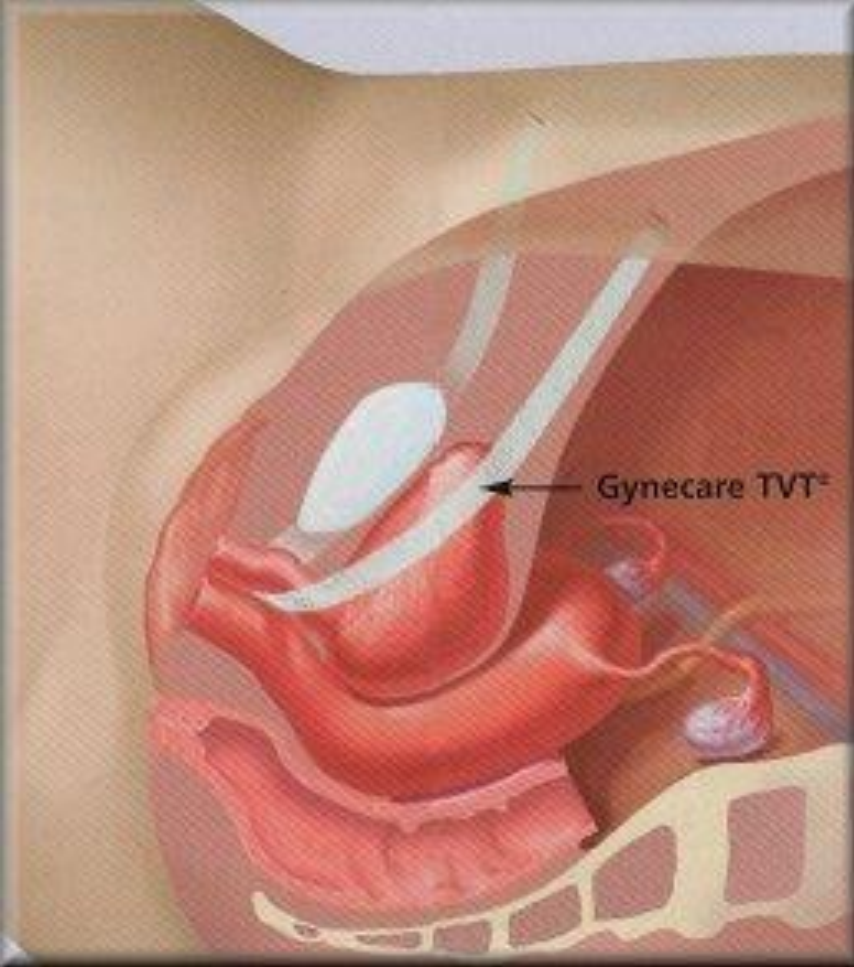
# Management of Mixed Urinary Incontinence (MUI)

- History, examination
- Initial conservative management
- Address dominant symptom
- Assess with urodynamics

# Management of MUI

- So what if they need a sling?
- 305 women with mixed symptoms
  - 31.5% had resolution of urgency
  - 53% in TOT group

Gamble et al AMJOG 2008;199:696



# De Novo Urgency post Sling

- 1.5% - 25%
- Combination of mild outflow obstruction and urethral irritation
- Lower rates in TOT

Botros et al AmJOG 2005;193:2144-8

# De Novo urgency post sling

➤ Immediate

Infection


➤ Early

Obstruction – pull down/UD/Lysis

➤ Late

1.5% at 1 year

# What are we waiting for?

- More high quality studies
  - Better drug therapies
  - Longer term data on BOTOX
- 

# Thank You

