



Options for "Failure"

- The Big Two(No order intended)
 - 1. Chemodenervation
 - 2. Neuromodulation
 - a. PTNS
 - b. Sacral
 - c. Pudendal



OTHER OPTIONS

- AUGMENTATION
- DIVERSION
- ? FUTURE: TISSUE ENGINEERING



ARE WE DONE?

- Well, now that we all agree, what are we talking about?
- · Outcome indicators and setting goals



Efficacy of OAB Treatments: How Is it Measured? (1)

- Traditional measures of efficacy primary efficacy variables
 - Change in urinary incontinence episodes
 - Change in micturitions/24 hours
- These do not consider the defining symptom of OAB – <u>urgency</u>
- Data available from registration studies of all compounds



Efficacy of OAB Treatments: How Is it Measured? (2)

- Traditional measures of efficacy– secondary efficacy variables
 - Voided volume
 - Effect on QOL
- Urodynamic endpoints
 - Early-phase studies
 - Little clinical relevance



Efficacy of OAB Treatments: How Is it Measured?(3)

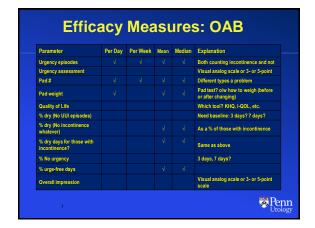
- Dry rates or incontinence-free days
 - Usually expressed as percentage of patients with no incontinence episodes over a fixed period of time
 - Different studies have used <u>different</u> time intervals, so be careful
 - Baseline often different, so be careful







Parameter	Per Day	Per Week	Mean	Median	Explanation
Urge incontinence episodes					
Total incontinence episodes					
Frequency (total)					Both counting episodes and not absolute and >8
Frequency minus nocturia					Same as above
Interval between micturitions					1440 (minutes)/# per day [mean]
Interval between micturitions					Minutes between each [median]
Delay (warning) time					Time (minutes) from urgency to void/leak.
Nocturia					Awakened from sleep plus go back. Both counting incontinence episodes and not. Absolute and > "normal"
Nocturia/voids					# from going to bed until arising. Both counting incontinence episodes and not. Absolute and > "normal"
Volume/void)					Absolute and increase from placebo. Voluntary void only



Parameter	Details		
Discontinuations	# (%) - Any reason Why? When ?(persistence)		
Dry mouth	# (%) Mild/Moderate/Severe (total and %; % of those with dry mouth) % discontinuing because of it Quantitative? (ic, "spit test" or others)		
Constipation (Can also term change in bowel habits but need to assess diarrhea, gas, etc. Should do, scale or parameters needed)	Mid/Moderate/Severe (total and %; % of those with constipation) % discontinuing because of it % starting or increasing laxetives Decrease in E of bowel movements, increase in consistency		
Dry eyes	% Mild/Moderate/Severe # / % discontinuing because of it		
Headache	% Mild/Moderate/Severe #1% discontinuing because of it How measure? subjective/objective		



Bladder Diaries

- Often used in clinical trials and in office practice
- Simple to use
- Compliance varies¹
- Measures dryness or other symptom improvement
- Do not measure quality-of-life improvement²
- Electronic diaries
 - Increased placebo rate

1. Wein AJ, et al. BJU Int. 2006;99:360-363. 2. Amundsen CL, et al. Neurourol Urodyn. 2007;26:341-349.



There are 10 separate scales for "measuring" URGENCY listed in the ICI book(INCONTINENCE, 2007)



Urgency Perception Score (UPS)

- 1. I am usually not able to hold urine
- 2. I am usually able to hold urine until I reach the toilet if I go immediately
- 3. I am usually able to finish what I'm doing before going to the toilet

Renn t, 2005; 95:591-596

Indevus Urgency Severity Scale (IUSS)

- 0. None no urgency
- Mild awareness of urgency but easily tolerated (can continue your usual activity/tasks)
- Moderate enough urgency discomfort that it interferes with or shortens usual activity/tasks
- 3. Severe extreme urgency discomfort that abruptly stops all activity/tasks

lixon et al, J.Urol, 2005; 174: 604-607.



Patient Perception of Intensity of Urgency Scale (PPIUS)

- 0. No urgency: I felt no need to empty my bladder but did so for other reason
- 1.Mild urgency: I could postpone voiding as long as necessary without fear of wetting myself
- 2. Moderate urgency: I could postpone voiding for a short while without fear of wetting myself
- 3. Severe urgency: I could not postpone voiding but had to rush to the toilet in order not to wet myself
- 4. Urge incontinence: I leaked before arriving to the toilet

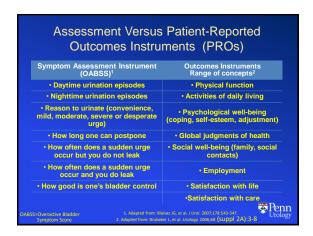
Notte et al, BMC Urology, 2012; 12: 26-34



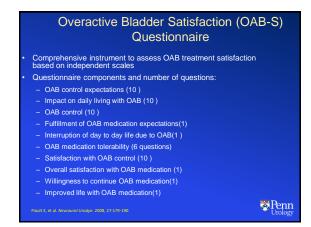
How does the PATIENT feel about all of this?

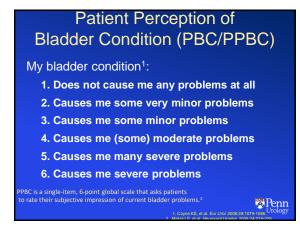


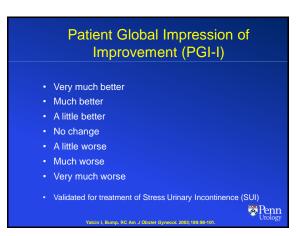
Patient Treatment Goals • Primary goals in treating OAB are - Reduced symptom occurrence - Increased patient's HRQL - Patient satisfaction with treatment - Willingness to continue therapy • Quality-of-life goals influenced by - Personal values - Beliefs - Age - Life Experience



Overactive Bladder Questionnaire (OABq) Important details regarding the 33-item OAB-q Self-administered in approximately 10 minutes Recall period is the previous four weeks Each item is rated on a 6-point Likert scale Designed for use among individuals who are 18+ in age.







REALLY? Is it that complicated?

EGGS for patient centered outcomes Linda Brubaker Bob Shull Int Urogynecol J, 2005; 16: 171-173

EXPECTATIONS

- · Specific expectations about symptom relief
 - 1. Clarified and coached to be realistic
 - 2. Extent of improvement for specific symptoms
 - 3. Possible side effects, complications
 - 4. Time line

May be readjusted along the way(up or down)



GOAL SETTING

- Typically stated in terms of life style events affected by the problem, ie
- sit through a movie or play
- play tennis without leaking
- Typically realistic and personal



GOAL ACHIEVEMENT

- Can be measured using visual analog scales or Likert type measures
- An important primary goal poorly achieved will adversely affect satisfaction
- Only weakly related to traditional outcome measures
- · If more than one goal, each rated



SATISFACTION

- The bottom line
- Captures the phenomenon of VALUE
- Was it worth it?
- Would you do the same thing again ?
- The overall perception of the health care experience; may be influenced by the doctorpatient relationship
- Traditional outcomes(measurements) are still important, but probably moreso to us than to the patient



A REFRACTORY OVERACTIVE BLADDER IS ONE FOR WHICH SATISFACTION HAS NOT BEEN ACHIEVED

Penn

The patient then decides whether to move ahead with second or third line therapy based on the bother and QOL disruption and a realistic description by the practitioner of what to expect in terms of benefits and risks



