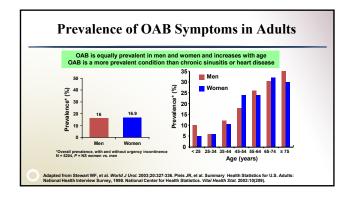
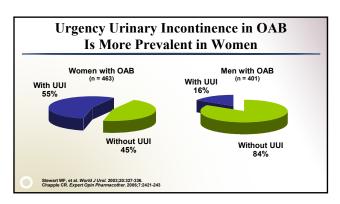


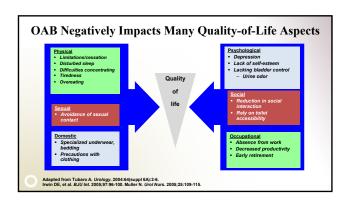
Patrick J. Shenot, MD Professor of Urology Residency Program Director Deputy Chair, Department of Urology Thomas Jefferson University Philadelphia, PA Patrick Shenot, MD has relevant financial relationships with ineligible companies to disclose: Consultant: Merck & Co., inc. All relevant financial relationships have been miltigated. Dr. Shenot does not intend to discuss the off-label use of a product. No (other) speakers, authors, planners or content reviewers have any relevant financial relationships to disclose. Content review confirmed that the content was developed in a fair, balanced manner free from commercial bias. Disclosure of a relationship is not intended to suggest or condone commercial bias in any presentation, but it is made to provide participants with information that might be of potental importance to their evaluation of a presentation.

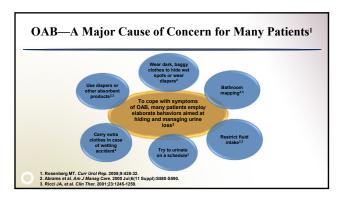
Target Audience This educational initiative is designed as a comprehensive approach to address the practice needs of primary care providers, including primary care physicians, osteopathic physicians, physician assistants, nurse practitioners, and allied healthcare professionals, who are at the forefront of caring for adult patients who may be suffering from OAB. Learning Objectives Upon completing this activity, participants will be able to: Proactively screen and evaluate at-risk individuals for overactive bladder (OAB) Utilize communication strategies aimed to evaluate the impact of OAB on quality of life and educate patients on appropriate treatment options and expectations Identify patients with OAB who would benefit from combination therapy to maximize efficacy and tolerability

International Continence Society Definition • Presence of urinary urgency, usually accompanied by frequency and nocturia, with or without urgency urinary incontinence (UUI) • No proven infection or other obvious pathology Four components of OAB symptoms: • Urgency • Frequency • Nocturia • Urgency urinary incontinence (about 1/3 of OAB patients) Abrams P. et al. Neuroural Urodyn. 2002;21:167-178. Wein AJ. et al. Urology: 2002;60(suppl 54):7-12.

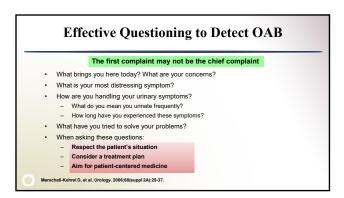


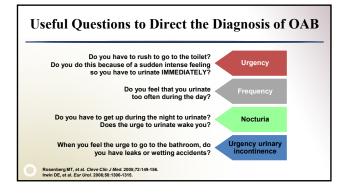


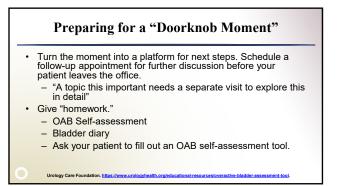


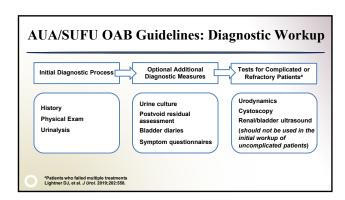


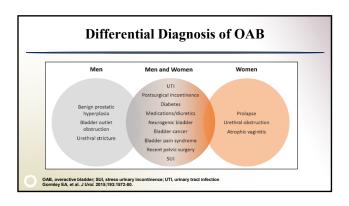
Key Populations: Patients With Diabetes and Obesity - Survey of 1359 patients with T2DM who were screened at a dedicated diabetes center¹ - 22.5% had OAB - 48.0% of those with OAB had incontinence - Overweight and obese women with T2DM: high prevalence of UI - Higher than other complications commonly associated with diabetes (retinopathy, 7.5%; microalbuminuria, 2.2%; neuropathy, 1.5%)² - Important implications for screening for bladder dysfunction

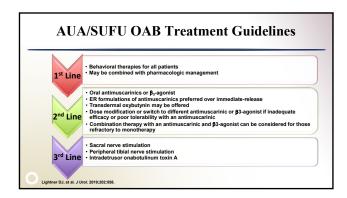


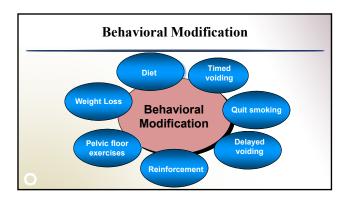


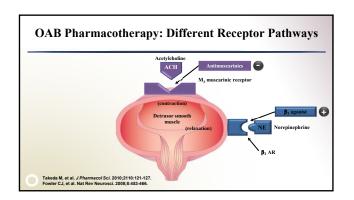


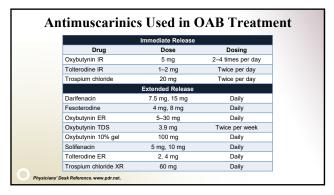




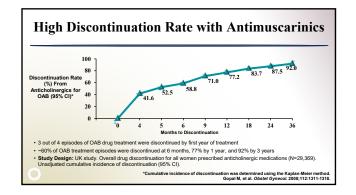


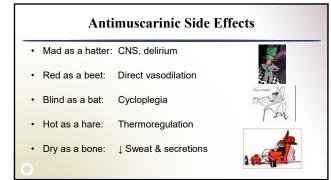


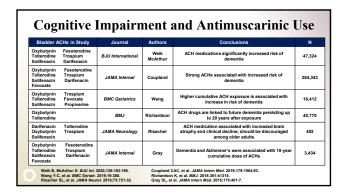




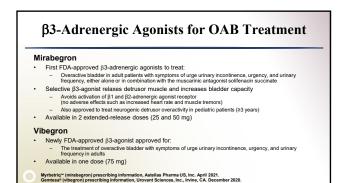
Review of randomized trials revealed no compelling evidence for differential efficacy across medications The choice of medication for a particular patient depends on the patient's history of: Prior antimuscarinic use Adverse events impact on the patient Patient preferences Comorbidities Use of other medications Availability of and resources to acquire specific medications

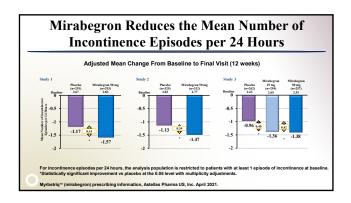




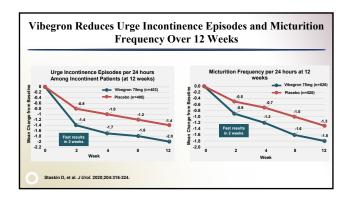


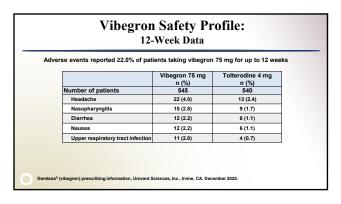
Adjusting OAB Therapy: Excess Adverse Effects - AUA Guidelines - manage constipation and dry mouth before abandoning effective therapy - May include - Bowel management - Fluid management - Decrease dose - Change medication - Within class - Other class - Refer to specialist Gornley EA et al. J Unil. 2012;183(6 Suppl):2455-2463. Lightner DJ, et al. J Unil. 2015;202:558.

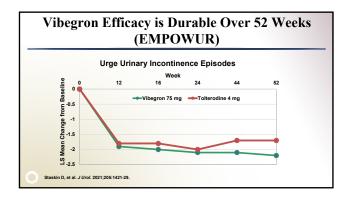




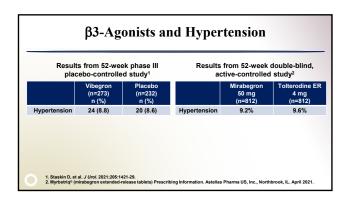








Vibegron Safety Profile: 52-Week Data from EMPOWUR Trial		
	Vibegron 75 mg	Placebo
	n (%)	n (%)
Number of patients	273	232
Hypertension	24 (8.8)	20 (8.6)
UTI	18 (6.6)	17 (7.3)
Headache	15 (5.5)	9 (3.9)
Diarrhea	13 (4.8)	4 (1.7)
Nasopharyngitis	13 (4.8)	12 (5.2)
Constipation	10 (3.7)	6 (2.6)
Nausea	10 (3.7)	7 (3.0)
Upper RTI	10 (3.7)	1 (0.4)
Dry mouth	5 (1.8)	12 (5.2)



Patient Case

- · 55-year-old woman with long history of type 2 diabetes mellitus
- BMI = 32 kg/m²
- · At today's visit, she complains of urgency urinary incontinence
 - Has experienced incontinence episodes for over 2 years but has been reluctant to talk about it
 - · Cannot sit through a two-hour movie
 - Experiences 2–3 daily incontinence episodes
 - Uses diapers when going out
 - · Restricts travel and fluid intake
 - Experiences anxiety in unfamiliar settings (must be aware of nearest bathroom)

Patient Case: Discussion Points

In addition to behavioral therapy, which of the following would you recommend?

- Antimuscarinic
- β3-agonist
- Combination therapy
- None of the above

Patient Case: Discussion Points

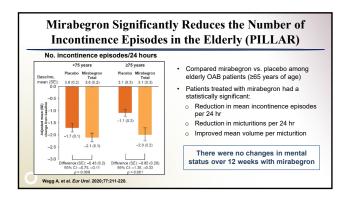
How would your treatment selection change if the patient:

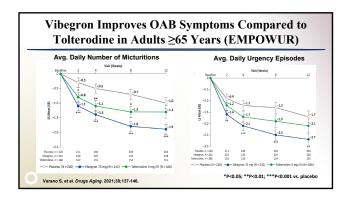
- · Was a 77-year-old female with OAB?
- Was a 59-year-old man with BPH?
- Partially benefited from previous antimuscarinic monotherapy?

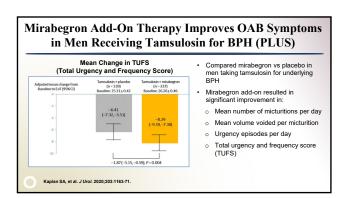
Tailoring OAB Therapy: Utilizing a Treat-to-Target Approach

- Communicate with patients to set and manage treatment expectations
- · Monitor regularly for efficacy and tolerability
- Adjust therapy when needed
 - · Dosage, add-on, combination
- Manage adverse effects
- Consider patient factors (age, comorbidities, etc.)

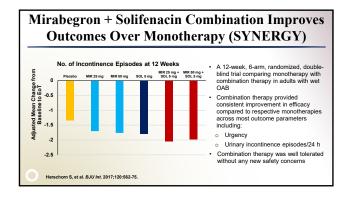
Considerations When Treating OAB in the Elderly OAB prevalence of ~30% among those 65 years and older (compared to ~16% in general adult population) o As high as 50% among elderly in LTCF Aging Polypharmacy Multiple Comorbidities population Concerns Optimal OAB Treatment in the Geriatric Population? Because of the potential risk for dementia with prolonged use of anticholinergics, caution should be used in patients over 65 years.

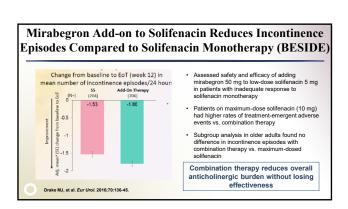






Adjusting Pharmacologic Therapy for OAB: Balancing Efficacy and Tolerability Consider the goals of the individual Balance efficacy and tolerability Start with the lowest dose Monitor medication adherence, lifestyle and behavioral therapy Titrate the dose if response to treatment not meeting patient's goals and adverse effects are safe and tolerable Consider add-on/combination therapy if adequate response is not achieved with monotherapy If possible, manage adverse effects before stopping an effective therapy





Mirabegron Combination with Muscarinic Antagonist

- Indicated in combination with the muscarinic antagonist solifenacin succinate for treatment of OAB with symptoms of urge urinary incontinence, urgency, and urinary frequency
- Combination regimen: Mirabegron 25 mg PO QD plus solifenacin succinate 5 mg PO QD
- May increase mirabegron dose to 50 mg PO QD after 4-8 weeks based on individual efficacy and tolerability

The Importance of the Primary Care Provider

- · Vital member in the OAB management pathway
- · Screen and identify, especially high-risk patients
- Efficiently diagnose OAB vs. other lower urinary tract disorders
- Effectively manage a number of OAB patients
- Knowing when to refer to a specialist
- Encourage, cheerlead, manage expectations

When to Consider Referral

- · Hematuria
- · Recurrent urinary tract infections
- · Pelvic pain
- Pelvic organ prolapse
- Neurogenic bladder
- Partial and non-responders

Conclusions

- OAB is highly prevalent in men and women and substantially impacts quality of life
- Communicate with patients to set goals and manage expectations
- Focus on meeting reasonable expectations (e.g., <100% dryness may be reasonable)
- Utilize a treat-to-target approach that involves regular assessment and treatment adjustments