

# SYMPTOM RELIEF FROM OAB: WHAT AN "AVERAGE" PATIENT MIGHT EXPECT: DATA FROM A POOLED ANALYSIS OF FESOTERODINE TREATED PATIENTS

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## INTRODUCTION & AIMS

Overactive bladder (OAB) affects up to 19% of adults >40 years of age [1]. Severity of symptoms and urgency incontinence drive patients to seek treatment. Data from randomized clinical trials (RCT) support the use of pharmacotherapy but are limited in that the results only describe the average change in index symptoms across the sample of patients entering the study. For newer treatments there is still a dearth of data on what response to treatment an individual patient might expect given their symptoms at presentation, a question often posed to primary care practitioners who are commonly charged with initiating drug therapy. Using pooled trial data, this study sought to characterize patient symptom response following treatment with fesoterodine.

## METHODS

This study used pooled data from 6 fixed dose studies, each a parallel, 12 week, double blind RCT to describe the degree of symptom improvement by end of weeks 4, 8 and 12, after exposure to either 4mg, or 8mg of fesoterodine or placebo. Analysis was based on all patients who took at least one dose of assigned study drug and contributed data to at least one baseline and post-baseline efficacy assessment with the baseline value of the outcome variable > 0.

The following measures were used: the proportion of patients achieving a 100% and 50% reduction in

- Urinary urgency episodes/24h (UUE)
- Urinary urgency incontinence (UUI) episodes /24h (where baseline UUI episodes>0)
- Daytime micturition frequency (DMF) /24 h (100% resolution defined as DMF<8/24h)
- Nocturnal Micturition Frequency/24h (NMF) (where 100% resolution is defined as N<1)
- **Combined symptoms**, reduction in all of urgency, 24 hr frequency and UUI

## RESULTS I

6689 patients were included in all studies. Demographic details and symptom indices at trial entry are shown in Table 1.

Table 1. Baseline characteristics

	Fesoterodine 4mg			Fesoterodine 8mg			Placebo			Total
	Male	Female	Total	Male	Female	Total	Male	Female	Total	
Total sample N	273	1100	1373	576	2687	3263	384	1669	2053	
Mean (SD) age	62.1 (12.7)	57.6 (13.2)	58.5 (13.2)	60.0 (14.3)	57.8 (13.0)	58.2 (13.3)	60.8 (13.9)	58.1 (13.1)	58.6 (13.3)	
Race (% white)	81.0	85.6	84.7	75.3	82.8	81.5	78.4	83.4	82.5	
BMI (m/kg <sup>2</sup> )	28.4 (5.5)	30.0 (7.4)	29.7 (7.1)	28.0 (5.5)	29.5 (6.7)	29.2 (6.5)	28.4 (5.6)	29.5 (7.1)	29.3 (6.8)	
DMF/24h mean (SD), N*	9.8 (2.4)	10.2 (3.0)	10.1 (3.0)	9.6 (2.8)	9.7 (2.9)	9.7 (2.9)	10.1 (2.9)	9.8 (2.9)	9.9 (3.0)	1524
NMF/24h mean (SD), N*	2.5 (2.0)	2.0 (1.4)	2.1 (1.6)	2.4 (1.4)	2.1 (1.4)	2.1 (2.5)	2.3 (1.4)	2.1 (1.4)	2.1 (1.4)	1524
UUE/24h mean (SD), N*	11.7 (4.0)	11.2 (4.0)	11.3 (4.0)	10.7 (4.1)	10.4 (4.0)	10.4 (4.0)	10.9 (4.4)	10.5 (4.1)	10.6 (4.1)	1910
UUI/24h Mean (SD), N*	3.5 (2.4)	3.9 (2.7)	3.9 (2.7)	2.9 (2.2)	3.3 (2.5)	3.2 (2.5)	3.0 (2.4)	3.4 (2.6)	3.3 (2.6)	1910

BM= body Mass Index, DMF=daytime micturition frequency, NMF=nocturnal micturition frequency, UUE= urinary urgency episodes, UUI=urgency incontinence episodes, N\* - all patients with UUI>1 at baseline

The proportions of patients experiencing a 50% and 100% reduction in their symptoms at week 4, 8 and 12 in for UUE, UUI, DMF, NMF and all variables according to treatment exposure are shown in Table 2. Figure 1 shows the sample size and proportion of patients experiencing resolution of UUI at each time point. Overall safety of fesoterodine did not differ from that demonstrated in source trials. The most frequent TEAE in the fesoterodine groups were dry mouth and constipation

## RESULTS II

		UUE/24h % (N/sample)	UUI/24h % (N/sample)	DMF/24h % (N/sample)	NMF/24h % (N/sample)	Combined UUE/UUI & DMF/24h % (N/sample)
<b>Week 4</b>						
50% response	Placebo	13.3 (257/1930)	51.9 (930/1792)			
	Fesoterodine 4mg	15.3 (192/1257)	61.7 (712/1155)			
	Fesoterodine 8mg	25.0 (762/3047)	69.7 (2043/2931)			
100% response	Placebo	1.4 (27/1930)	23.6 (423/1792)	36.6 (574/1570)	24.2 (380/1570)	0.7% (10/1428)
	Fesoterodine 4mg	1.5 (19/1257)	25.7 (297/1155)	33.6 (182/542)	26.6 (144/542)	0.2% (1/440)
	Fesoterodine 8mg	2.5 (75/3047)	38.5 (1128/3047)	48.9 (1146/2343)	27.5 (645/2343)	2.1% (47/2227)
<b>Week 8</b>						
50% response	Placebo	5.2(28/539)	45.1 (185/410)			
	Fesoterodine 4mg	9.7 (51/525)	60.6 (257/424)			
	Fesoterodine 8mg	60 (11.3/539)	69.0 (303/439)			
100% response	Placebo	0.6 (3/539)	12.2 (50/410)	33.2 (179/539)	31.4 (169/539)	0.2 (1/410)
	Fesoterodine 4mg	0.4 (2/525)	16.3 (69/424)	40.6 (213/525)	32.2 (169/525)	0.2 (1/424)
	Fesoterodine 8mg	0.7 (4/539)	23.5 (103/439)	47.5 (256/539)	37.9 (204/539)	0.46 (2/439)
<b>Week 12</b>						
50% response	Placebo	21.3 (417/1955)	63.6 (1156/1817)			
	Fesoterodine 4mg	24.8 (319/1285)	72.8 (859/1179)			
	Fesoterodine 8mg	37.4 (1150/3077)	79.8 (2360/2959)			
100% response	Placebo	3.6 (71/1955)	36.1 (655/1817)	42.1 (669/1589)	29.9 (475/1589)	2.9 (42/1448)
	Fesoterodine 4mg	3.1 (40/1285)	38.9 (459/1179)	42.4 (234/552)	34.2 (189/552)	0.67 (3/446)
	Fesoterodine 8mg	6.4 (198/3077)	53.2 (1574/2959)	55.0 (1299/2361)	32.7 (771/2361)	5.22 (117/2243)

Table 2. Efficacy variables and responder rates by week and intervention exposure



Figure 1. Sample size and proportion of patients experiencing resolution of UUI

## CONCLUSIONS

- There was an increase in symptom response in patients managed with either 4 or 8 mg of fesoterodine compared to treatment with placebo, reaching 38.9% – 53.2% resolution of UUI at 12 weeks with fesoterodine. At all time points, the decrease in UUE was noticeably smaller than that in UUI and total abolition of UUE was seldom seen.
- The proportion of patients achieving normalization of NMF was not dissimilar to that achieved with placebo.
- The small week 4 sample size may have affected the variability in the estimates of response.
- Total resolution of all symptoms was seldom achieved, regardless of timing or dose of fesoterodine.
- These data, and their time course, provide useful information for patients presenting for treatment in order to convey realistic expectations of symptom relief.

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## REFERENCES

1. Eur Urol. 2006 Dec;50(6):1306-14