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Title:	DARIFENACIN, THE FIRST SELECTIVE M3 ANTAGONIST FOR OVERACTIVE BLADDER:
	COMPARISON WITH OXYBUTYNIN ON AMBULATORY URODYNAMIC MONITORING
	AND SALIVARY FLOW

Aims of Study:

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Preliminary data suggest that the selective M_3 antagonist darifenacin may have selectivity for bladder over salivary gland, leading to a lesser effect on salivary flow. This study compared the effects of darifenacin with the non-selective agent, oxybutynin in patients with detrusor instability.

Methods:

This was a randomized, double-blind, parallel-group, two-way crossover study. Ambulatory urodynamic monitoring (AUM; duration of detrusor overactivity in secs, measured for 6 h) and stimulated salivary flow measurements over 1 min (area under effect-time curve [AUEC] 2 h pre-dose to 4 h post-dose) were performed on Day 7 of treatment. Urodynamic variables and salivary flow measurements were analysed by ANOVA.

Results:

There was no statistically significant difference in duration of detrusor overactivity with darifenacin (15 or 30 mg od) compared with oxybutynin (5 mg tid). Salivary flow (AUEC) was statistically significantly greater in patients who had received darifenacin compared with those who had received oxybutynin (table).

Treatment (mg) Salivary Flow	Darifenacin 15 od n=21	Oxybutynin 5 tid n=22	Darifenacin 30 od n=22	Oxybutynin 5 tid n=23
AUEC (ml)	725*	383	419**	271
AUM	n=20	n=23	n=21	n=21
Duration of Overactivity on Day 7 (secs)	308	243	227	279

P-value *p=0.0002 and **p=0.0499.

Conclusions:

At doses with similar urodynamic efficacy, oxybutynin reduced salivary flow significantly more than darifenacin. This may indicate that darifenacin has comparable urodynamic efficacy to oxybutynin, but less of an adverse effect on salivary flow. This study was sponsored by Pfizer, Inc.