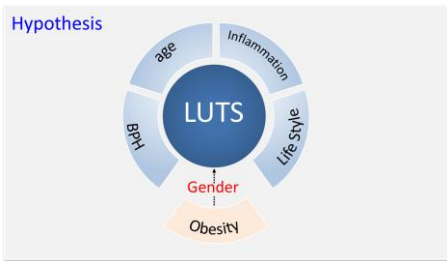


Gender difference in the association between obesity and urinary urgency. Findings from analysis of 2,568 healthy young and middle-aged adults.

Kiuchi H , Sekii Y , Inagaki Y , Ueda N , Fukuhara S , Miyagawa Y , Takezawa K , Takao T , Tsujimura A , Nonomura N.
Osaka University Graduate School of Medicine, Department of Urology, Suita, Japan

Introduction

Urinary urgency is found to be associated with age in elderly adults, and with obesity in elderly. However, little is known about this relationship in young and middle-aged adults around the age of onset of urgency. We explored this association in young and middle-aged adults in a large scale survey.

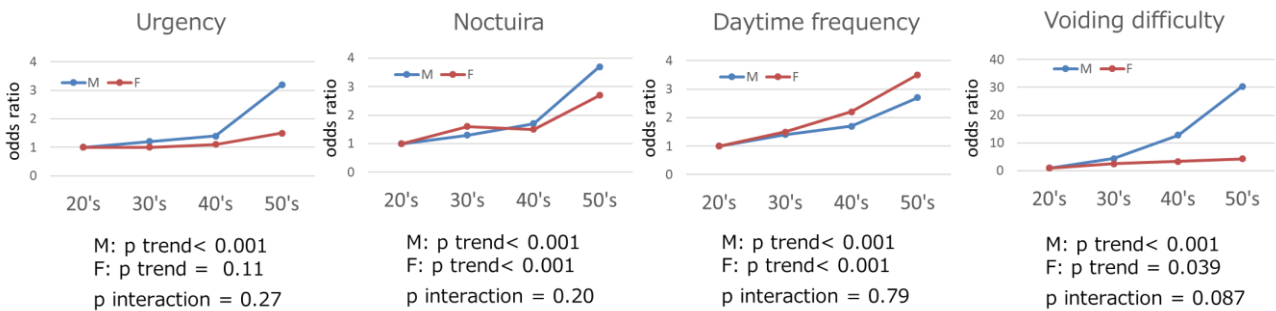


Subjects & Methods

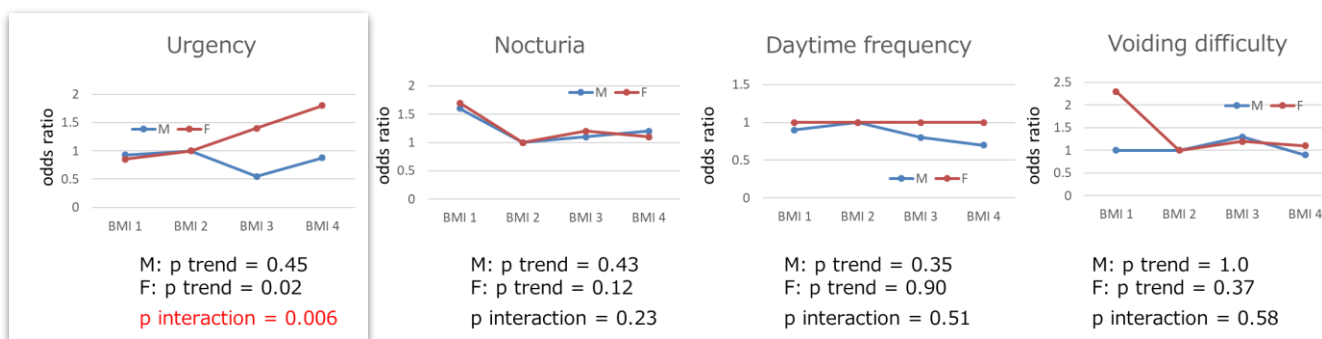
A total of 2,568 Japanese adults (aged 20 to 59, 1,316 men and 1,252 women) were enrolled in this study. Urgency was assessed by OABSS (Overactive bladder symptom score, OAB Questioner). Lower urinary symptoms were evaluated by I-PSS. Obesity was evaluated with BMI, body weight, circumference and visceral fat.

BMI	BMI 1 (-18.4) UNDERWEIGHT	BMI 2 (18.5-21.9) NORMAL 1	BMI 3 (22-24.9) NORMAL 2	BMI 4 (25-) OBESE
M	57	394	490	375
F	179	694	265	114

Results



Prevalence of urgency, urgent incontinence, dysuria, daytime frequency and night-time frequency was 14.8%, 1.9%, 5.3%, 34.8% and 27.2%, respectively. In both men and women, dysuria, day-time frequency and nighttime frequency significantly increased with advancing age (all p < 0.05). **For urgency**, the prevalence **increased with age in men** (odds ratio(OR) 1.4 for 40's and OR 3.2 for 50's; p trend < 0.001), but that did **not increase with age in women** (OR 1.1 for 40 and OR 1.5 for 50; p trend = 0.11; p interaction vs men = 0.27).



Obesity was associated with urgency only in women (OR 1.7 for T3, OR 2.1 for T4; p trend = 0.02; p interaction vs men = 0.005).

Conclusion

We found that for urinary urgency, women in young and middle-aged were likely to be affected by obesity rather than age, while men were likely to be affected by age rather than obesity.

Gender difference was found in the association between obesity and urinary urgency in this age.

COI disclosure information:
I have no COI with regard to our paper.

Hiroshi Kiuchi