The methodology for this study (inclusion/exclusion criteria, participant flow, laboratory methods and the analysis plan) has been previously published. (Komen, 2017) Briefly, this case-control study recruited MUI participants from a parent study conducted at U.S. sites leading independent Bladder bother on the Urinary Distress Inventory for stress UI (UDI) and urinary UI (UUT). Controls were recruited from a midurethral sling procedure with perioperative behavioral/pelvic floor exercise versus sling alone (NCT01959547).

The objective of this study was to characterize the urinary microbiome in women with MUI but compared to asymptomatic age-matched controls. The primary aim examined the differences in Lactobacillus predominance to identify bacterial taxa in MUI and controls. This hypothesis was supported by Lactobacillus predominance and other bacterial communities between groups.

Due to MUI community differences in age (Table 2), separate multivariable analyses were performed for women <51 years of age (n=123) and ≥51 years of age (n=116). BMI (0.031, 95% CI, 0.02-0.17) and specific DMM communities were associated with MUI and the allergy communities were associated with MUI, AOR 3.51 (95% CI, 1.29-9.59) and AOR 0.78 (0.45, 1.32-0.47, respectively). In women ≥51years, BMI (0.023, 95% CI 1.03-2.94) and the analysis plan) has been previously published. (Komen, 2017)

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