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URINARY HABITS AMONG ASYMPTOMATIC WOMEN

Aims of Study

To determine normal ranges for voiding diary variables for a racially diverse sample of American women without lower urinary tract symptoms.

Methods

300 women without lower urinary tract symptoms completed a 24-hour log of fluid intake and volumes voided. We used linear regression to analyze diary data according to patient characteristics including race, age, bodymass index and parity.

Results

Subjects were 118 (39%) African-American, 117 (39%) Caucasian, 36 (12%) Hispanic, 28 (9%) Asian and 1 mixed race. Subjects voided a median of 8 times in 24 hours, with 95% of subjects recording fewer than 13 voids per 24 hours. Subjects recorded a median of 4 voids per liter intake (95% recording fewer than 9 voids per liter). Nighttime voids were recorded by 133 (44%) subjects. According to current definitions, polyuria was present in 54 (18%) subjects. Linear regression showed the number of voids per 24 hours was related to patient age (B=0.1,p<0.001) and fluid intake (B=0.39,p<0.001). Mean (B=-0.31,p<0.001) and maximum (B=-0.2,p=0.003) voided volumes were lower among African-American women. Voids per liter intake varied with age (B=0.19,p=0.002) and was higher among parous (B=0.12,p=0.003) and Asian (B=0.17,p=0.002) women. The number of nighttime voids depended only on patient age (B=0.23,p<0.001).

Conclusions

The results of this multiracial study differ materially from other studies of asymptomatic women. It is probably inappropriate to apply a single set of normative values to all women in North America because of the significant variability in regional climates and populations.