**Supplementary Online Content**

**Supplementary Figure 1.** The medians and interquartile ranges (IQR) of the daily water and fluid intake by socio-demographic characteristics and comorbidities from participants enrolled in NHANES cycle 2009-2010 and 2011-2012.

**Supplementary Figure 2.** The medians and interquartile ranges (IQR) of urine concentration indicators by socio-demographic characteristics and comorbidities from participants enrolled in NHANES cycle 2009-2010 and 2011-2012.

**Supplementary Figure 3.** The medians and interquartile ranges (IQR) of blood-osmolality based hydration indicators by socio-demographic characteristics and comorbidities from participants enrolled in NHANES cycle 2009-2010 and 2011-2012.

**Supplementary Figure 4.** Correlation matrix of Spearman correlation coefficients among analyzed factors related to kidney stones.

**Supplementary figure 1.** The medians and interquartile ranges (IQR) of the daily water and fluid intake by socio-demographic characteristics and comorbidities from participants enrolled in NHANES cycle 2009-2010 and 2011-2012.

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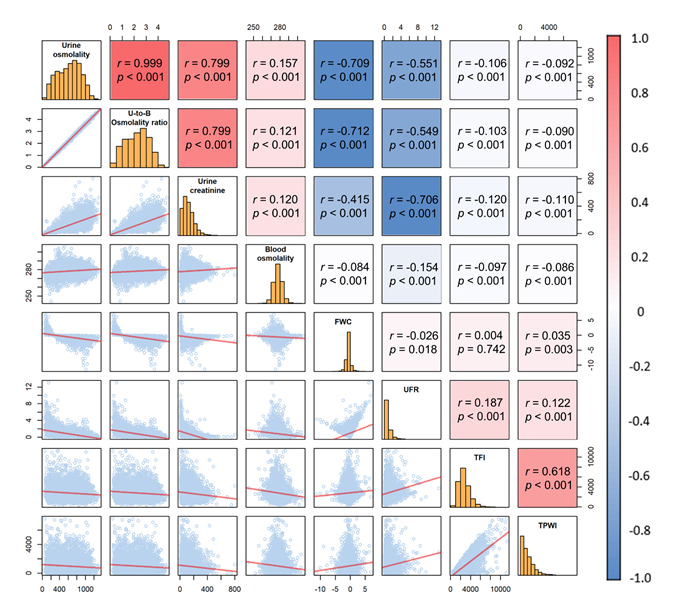
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**Supplementary figure 3.** The medians and interquartile ranges (IQR) of blood-osmolality based hydration indicators by socio-demographic characteristics and comorbidities from participants enrolled in NHANES cycle 2009-2010 and 2011-2012.

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**Supplementary Figure 4.** Correlation matrix of Spearman correlation coefficients among analyzed factors related to kidney stones. U-to-B Osmolality ratio, urine-to-blood osmolality ratio; FWC, free water clearance; UFR, urine flow rate; TFI, total fluid intake; TPWI, total plain water intake.



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