Group	Number	Age mean (years)	Heights (cm)	Weights (kg)	BMI
KBD patients	30	47.57 ± 9.97	157.45 ± 6.04	57.14 ± 7.24	23.07 ± 3.16
Controls	30	47.27 ± 13.06	158.76 ± 7.15	58.26 ± 8.64	23.08 ± 3.07
t		0.099	0.754	0.541	0.007
Р		0.921	0.454	0.592	0.994

Supplementary Table S1. General conditions of the female KBD patients and controls



Supplementary Figure S1. The total ionization graph between patients and controls in the negative ESI mode. (A) KBD; (B) control. ESI: electrospray ionization; KBD, Kashin-Beck disease.



Supplementary Figure S2. PCA score plot of urinary metabolites.



Supplementary Figure S3. PLS-DA score plot of urinary metabolites.

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Supplementary Figure S4. Comparison of 12 different metabolites in the urine sample of the two groups. ${}^{**}P < 0.01$; ${}^{***}P < 0.001$.