

Supplementary Tables:

Supplementary Table 1: Clinical and Epidemiological characteristics of patients in controls and OAB group

Characteristics	Controls (n=25)	OAB group (n=30)	P value
Age (years)	66.6 ± 11.8 (44–84)	62.0 ± 15.5 (23–89)	0.213
Creatinine (mg/ml)	0.75 ± 0.51 (0.02–1.63)	0.64 ± 0.47 (0.15–1.85)	0.414
OABSS score	1.7 ± 1.6 (0–5)	8.9 ± 3.5 (3–14)	<0.01

OAB: overactive bladder, OABSS: overactive bladder symptom score.

Supplementary Table 2: Urinary NGF/Cr and BDNF/Cr levels in controls and OAB patients

	NGF/Cr (pg/mg)	BDNF/Cr (pg/mg)
Controls (n=25)	61.44 ± 103.00	859.58 ± 835.35
OAB (n=30)	116.30 ± 86.83	1627.25 ± 1119.95
P value	0.04	<0.01

NGF: nerve growth factor, BDNF: brain derived neurotrophic factor, OAB overactive bladder.

Supplementary Table 3: Comparisons of urinary NGF/Cr and BDNF/Cr levels among patients with different severity of OAB symptoms

Items	Controls (n=25)	Mild OAB (n=7)	Moderate OAB (n=13)	Severe OAB (n=10)
NGF/Cr (pg/mg)	61.44 ± 103.00	55.58 ± 51.94	107.11 ± 99.79	170.74 ± 54.16
P value		0.89 (vs. controls)	0.20 (vs. controls) 0.22 (vs. mild OAB)	<0.01 (vs. controls) <0.01 (vs. mild OAB) 0.08 (vs. moderate OAB)
BDNF/Cr (pg/mg)	859.58 ± 835.35	873.17 ± 660.08	1591.84 ± 1158.23	2201.14 ± 1073.51

<i>P</i> value	0.97 (vs. controls)	0.03 (vs. controls) 0.15 (vs. mild OAB)	<0.01 (vs. controls) 0.01 (vs. mild OAB) 0.21 (vs. moderate OAB)
----------------	------------------------	---	---

NGF nerve growth factor, BDNF brain derived neurotrophic factor, OAB overactive bladder.

Supplementary Table 4: Comparisons of urinary NGF/Cr and BDNF/Cr levels of different types of OAB

Controls (<i>n</i> = 25)	Dry OAB (<i>n</i> = 9)	Wet OAB (<i>n</i> = 21)	
NGF/Cr (pg/mg)	61.44 ± 103.00	60.56 ± 51.81	140.19 ± 88.66
<i>P</i> value	0.98 (vs. controls)	<0.01 (vs. controls) 0.02 (vs. dry OAB)	
BDNF/Cr (pg/mg)	859.58 ± 835.35	810.71 ± 448.40	1977.20 ± 1144.41
<i>P</i> value	0.87 (vs. controls)	<0.01 (vs. controls) <0.01 (vs. dry OAB)	

NGF: nerve growth factor, BDNF: brain derived neurotrophic factor, OAB: overactive bladder.

Supplementary Table 5: Correlation between urinary NGF/Cr, BDNF/Cr and different OAB symptoms

	NGF/Cr		BDNF/Cr	
	<i>r</i>	<i>P</i> value	<i>r</i>	<i>P</i> value
Daytime urination	-0.04	0.82	-0.08	0.68
Nocturnal urination	0.28	0.13	-0.02	0.91
Urinary urgency	0.55	<0.01	0.43	0.02
UUI 0.59		<0.01	0.52	<0.01

NGF: nerve growth factor, BDNF: brain derived neurotrophic factor, OAB: overactive bladder, UUI: urge urinary incontinence.

Supplementary Table 6: The sensitivity and specificity of urinary NGF/Cr and BDNF/Cr levels according to the cutoff values

Cutoff values (pg/mg)	Sensitivity (%)	Specificity (%)
-----------------------	-----------------	-----------------

NGF/Cr 26.32	93.3	64.0
BDNF/Cr 681.93	86.7	72.0

NGF: nerve growth factor, BDNF: brain derived neurotrophic factor.

Supplementary Figure 1. The correlation between urinary NGF/Cr (A), BDNF/Cr (B) and OABSS score.

