

Table S1. The AUC of the COV of urinary biomarkers in discriminating different OAB subgroups and controls.

HSB vs. Controls	AUC	COV	Sensitivity	Specificity	PPV	NPV
IL-1 β	0.584	≥ 0.440	85.2%	48.5%	57.5%	80%
IL-2	0.722	≤ 0.775	89.3%	54.5%	62.5%	85.7%
IL-6	0.564	≥ 0.385	100%	18.2%	50.9%	100%
IL-8	0.580	≥ 93.295	21.4%	100%	100%	60%
TNF- α	0.570	≥ 0.770	55.6%	63.6%	55.6%	63.6%
VEGF	0.684	≤ 3.410	46.4%	97.1%	92.9%	68.8%
NGF	0.659	≤ 0.245	65.5%	61.8%	59.4%	67.7%
BDNF	0.519	≤ 0.415	24.1%	100%	100%	60%
PGE2	0.581	≥ 180.605	48.3%	75.8%	63.6%	62.5%
8-isoprostane	0.612	≥ 22.610	41.4%	81.8%	66.7%	61.4%
TAC	0.776	≤ 318.66	58.6%	91.2%	85%	72.1%
8-OHdG	0.517	≤ 14.775	62.1%	58.8%	56.3%	64.5%
IDO + NDO + DV vs. HSB						
IL-1 β	0.693	≥ 0.610	66.4%	81.5%	93.8%	36.7%
IL-2	0.729	≤ 0.390	55.6%	100.0%	100.0%	35.0%
IL-6	0.510	≥ 1.650	32.5%	85.7%	90.2%	23.8%
IL-8	0.546	≥ 1.860	85.0%	32.1%	83.5%	34.6%
TNF- α	0.742	≥ 1.035	64.6%	88.9%	96.1%	37.5%
VEGF	0.547	≥ 3.235	73.7%	46.4%	84.8%	30.2%
NGF	0.598	≤ 0.115	28.4%	100.0%	100.0%	25.9%
BDNF	0.549	≤ 0.310	21.1%	100.0%	100.0%	24.4%
PGE2	0.557	≥ 133.01	72.8%	44.8%	83.8%	29.5%
8-isoprostane	0.545	≤ 10.19	37.9%	79.3%	88.0%	24.2%
TAC	0.681	≥ 316.32	75.9%	58.6%	87.6%	38.6%
8-OHdG	0.675	≥ 24.13	57.8%	75.9%	90.5%	31.0%
IDO + NDO vs. DV						
IL-1 β	0.710	≤ 0.695	69.6%	75.0%	81.4%	61.1%
IL-2	0.732	≥ 0.200	76.4%	62.2%	76.4%	62.2%
IL-6	0.707	≥ 0.885	66.2%	69.8%	78.3%	55.6%
IL-8	0.558	≥ 7.505	56.5%	56.8%	67.2%	45.5%
TNF- α	0.552	≥ 1.545	45.7%	93.0%	91.4%	51.3%
VEGF	0.742	≥ 9.080	61.4%	88.6%	89.6%	59.1%
NGF	0.619	≤ 0.125	45.8%	100.0%	100.0%	53.0%
BDNF	0.745	≤ 0.510	65.2%	86.7%	88.2%	61.9%
PGE2	0.682	≥ 185.24	67.1%	68.2%	77.0%	56.6%
8-isoprostane	0.771	≥ 17.745	61.1%	84.1%	86.3%	56.9%
TAC	0.541	≥ 1203.74	27.5%	93.0%	86.4%	44.4%
8-OHdG	0.578	≤ 23.59	49.3%	71.1%	72.9%	47.1%
IDO vs. NDO						
IL-1 β	0.758	≤ 0.510	58.1%	89.5%	81.8%	72.3%
IL-2	0.907	≥ 0.480	100.0%	78.0%	77.5%	100%
IL-6	0.544	≤ 1.600	74.2%	50.0%	53.5%	71.4%
IL-8	0.528	≥ 3.710	87.1%	36.8%	52.9%	77.8%
TNF- α	0.852	≤ 1.460	90.3%	76.9%	75.7%	90.9%
VEGF	0.682	≥ 7.850	90.3%	56.4%	62.2%	88%
NGF	0.894	≥ 0.130	100.0%	80.5%	79.5%	100.0%
BDNF	0.797	≥ 0.365	100.0%	68.4%	72.1%	100.0%

PGE2	0.662	≤ 626.195	96.8%	33.3%	54%	92.9%
8-isoprostane	0.511	≥ 7.115	93.5%	14.6%	45.3%	75.0%
TAC	0.789	≥ 642.62	72.4%	75.0%	67.7%	78.9%
8-OHdG	0.523	≤ 38.155	77.4%	35.0%	48.0%	66.7%

Abbreviations: IDO: idiopathic detrusor overactivity; NDO: neurogenic detrusor overactivity; DV: dysfunctional voiding; HSB: hypersensitive bladder; IL: interleukin; TNF- α : tumor necrosis factor- α ; VEGF: vascular endothelial growth factor; NGF: nerve growth factor; BDNF: brain-derived neurotrophic factor; PGE2: prostaglandin E2; TAC: total antioxidant capacity; 8-OHdG: 8-hydroxydeoxyguanosine; AUC: area under the curve; COV: cut-off value; PPV: positive predictive value; NPV: negative predictive value.