

SUPPLEMENTARY TABLE

Supplementary Table 1. Physical and metabolic characteristics of 1579 participants in this study in Hainan province, China.

	<i>Normal</i>	<i>Prediabetes</i>	<i>P value</i>	<i>Diabetes</i>	<i>P value</i>
<i>Whole (n = 1579)</i>	N= 639	N= 705		N= 235	
<i>Age(year)</i>	41.69±12.33	50.91±12.31	.00001	56.75±11.11	.00001
<i>Weight(Kg)</i>	58.40±10.79	61.35±11.32	.00001	63.10±10.03	.00001
<i>Height(cm)</i>	159.49±7.86	159.23±8.55	.5614	159.36±8.47	.8376
<i>Body mass index (BMI, Kg/m2)</i>	22.91±3.56	24.09±3.39	.00001	24.80±3.09	.00001
<i>Waist circumference(cm)</i>	77.95±9.40	82.72±9.40	.00001	86.11±8.27	.00001
<i>Systolic pressure (mmHg)</i>	117.24±16.83	127.81±19.48	.00001	132.56±21.01	.00001
<i>Diastolic pressure(mmHg)</i>	74.92±11.13	79.41±12.44	.00001	80.62±12.55	.00001
<i>Heartbeat(times/min)</i>	79.73±11.07	82.44±12.63	.00001	84.36±12.80	.00001
<i>FPG(mmol/L)</i>	4.87±0.38	5.35±0.52	.00001	7.52±2.78	.00001
<i>OGTT2PG(mmol/L)</i>	5.89±1.06	7.68±1.60	.00001	13.38±5.01	.00001
<i>Triglyceride(mmol/L)</i>	1.53±1.04	2.03±1.79	.00001	2.61±3.34	.00001
<i>Total cholesterol(mmol/L)</i>	5.15±0.97	5.55±1.07	.00001	5.78±1.27	.00001
<i>LDL(mmol/L)</i>	2.78±0.76	3.04±0.84	.00001	3.16±0.92	.00001
<i>HDL(mmol/L)</i>	1.54±0.41	1.49±0.32	.0124	1.42±0.29	.00001
<i>Blood urine acid(μmol/L)</i>	336.40±85.68	367.00±89.86	.00001	374.16±88.96	.00001
<i>HbA1c(%)</i>	5.22±0.32	5.68±0.39	.00001	7.08±1.74	.00001
<i>VitaminD3(ng/mL)</i>	36.38±10.48	38.55±10.86	.0002	39.57±11.12	.00001
<i>Fasting proinsulin(pmol/L)</i>	11.56±8.14	13.47±10.63	.0002	21.91±23.82	.00001
<i>2h proinsulin(pmol/L)</i>	57.80±50.26	62.99±51.66	.0626	74.52±63.44	.00001
<i>Fasting insulin(pmol/L)</i>	57.53±34.03	67.62±44.18	.00001	86.69±84.84	.00001
<i>2h insulin(pmol/L)</i>	379.99±295.46	572.72±491.65	.00001	600.48±570.17	.00001
<i>Male (n = 567)</i>	N = 202	N= 261		N = 104	
<i>Age(year)</i>	43.56±12.40	50.81±12.30	.00001	55.86±11.60	.00001
<i>Weight(Kg)</i>	66.08±9.12	68.82±10.58	.0036	68.37±9.48	.041
<i>Height(cm)</i>	167.02±6.08	167.02±6.13	.99999	166.05±6.02	.1858
<i>Body mass index (BMI, Kg/m2)</i>	23.70±2.80	24.60±3.19	.0016	24.77±3.00	.0022
<i>Waist circumference(cm)</i>	83.84±8.16	87.32±9.05	.00001	88.25±7.39	.00001
<i>Systolic pressure (mmHg)</i>	123.11±15.60	130.72±18.09	.00001	132.11±19.79	.00001
<i>Diastolic pressure(mmHg)</i>	77.71±11.28	82.76±13.11	.00001	81.63±12.00	.0052
<i>Heartbeat(times/min)</i>	77.41±10.62	80.16±10.93	.0068	81.90±12.60	.0012
<i>FPG(mmol/L)</i>	4.87±0.39	5.33±0.51	.00001	7.46±3.20	.00001
<i>OGTT2hPG(mmol/L)</i>	5.89±1.16	7.61±1.72	.00001	13.33±5.16	.00001
<i>Triglyceride(mmol/L)</i>	1.90±1.40	2.33±2.18	.015	2.81±3.23	.0006
<i>Total cholesterol(mmol/L)</i>	5.34±0.98	5.53±1.06		5.62±1.08	
<i>LDL(mmol/L)</i>	3.00±0.79	3.07±0.88	.3754	3.08±0.92	.4286
<i>HDL(mmol/L)</i>	1.40±0.29	1.37±0.28	.261	1.35±0.26	.1404
<i>Blood urine acid(μmol/L)</i>	412.34±81.38	428.23±79.52	.0354	410.17±78.38	.8232
<i>HbA1c(%)</i>	5.25±0.33	5.70±0.37	.00001	7.02±1.80	.00001
<i>VitaminD3(ng/mL)</i>	43.20±11.24	44.32±12.24	.3122	44.62±11.87	.3052
<i>Fasting proinsulin(pmol/L)</i>	13.88±10.21	15.93±12.02	.0528	26.47±30.65	.00001
<i>2h proinsulin(pmol/L)</i>	68.46±68.43	73.12±56.15	.4214	84.22±73.43	.0636

<i>Fasting insulin(pmol/L)</i>	58.44±32.59	68.51±45.56	.0082	78.87±67.75	.0004
<i>2h insulin(pmol/L)</i>	381.00±313.10	566.37±499.41	.00001	578.36±533.82	.00001
<i>Female (n = 1012)</i>	N= 437	N= 444		N = 131	
<i>Age(year)</i>	40.83±12.21	50.97±12.33	.00001	57.45±10.70	.00001
<i>Weight(Kg)</i>	54.85±9.59	56.96±9.27	.001	58.92±8.37	.00001
<i>Height(cm)</i>	156.03±5.94	154.65±6.12	.0008	154.04±6.01	.0008
<i>Body mass index (BMI, Kg/m2)</i>	22.54±3.81	23.79±3.46	.00001	24.81±3.16	.00001
<i>Waist circumference(cm)</i>	75.22±8.67	80.02±8.53	.00001	84.41±8.56	.00001
<i>Systolic pressure (mmHg)</i>	114.53±16.70	126.11±20.09	.00001	132.91±22.00	.00001
<i>Diastolic pressure(mmHg)</i>	73.64±10.82	77.44±11.60	.00001	79.83±12.95	.00001
<i>Heartbeat(times/min)</i>	80.81±11.13	83.79±13.36	.0004	86.35±12.67	.00001
<i>FPG(mmol/L)</i>	4.86±0.38	5.35±0.52	.00001	7.56±2.40	.00001
<i>OGTT2hPG(mmol/L)</i>	5.89±1.01	7.72±1.53	.00001	13.42±4.90	.00001
<i>Triglyceride(mmol/L)</i>	1.36±0.76	1.84±1.48	.00001	2.44±3.43	.00001
<i>Total cholesterol(mmol/L)</i>	5.06±0.95	5.56±1.08	.00001	5.91±1.40	.00001
<i>LDL(mmol/L)</i>	2.68±0.73	3.02±0.81	.00001	3.23±0.92	.00001
<i>HDL(mmol/L)</i>	1.60±0.44	1.56±0.32	.3342	1.48±0.29	.0034
<i>Blood urine acid(μmol/L)</i>	301.30±61.52	331.15±75.05	.00001	345.57±86.70	.00001
<i>HbA1c(%)</i>	5.21±0.32	5.67±0.40	.00001	7.13±1.69	.00001
<i>VitaminD3(ng/mL)</i>	33.22±8.42	35.17±8.27	.0006	35.55±8.62	.006
<i>Fasting proinsulin(pmol/L)</i>	10.48±6.72	12.03±9.44	.0052	18.28±15.72	.00001
<i>2h proinsulin(pmol/L)</i>	52.87±38.15	57.03±47.89	.1546	66.81±53.26	.001
<i>Fasting insulin(pmol/L)</i>	57.12±34.70	67.10±43.38	.0002	92.89±96.08	.00001
<i>2h insulin(pmol/L)</i>	379.52±287.27	576.45±487.55	.00001	618.05±598.91	.00001