

**Supplementary Table 1 Demographic and clinical characteristics in type 2 diabetes mellitus-hypertension and type 2 diabetes mellitus-non-hypertension**

	T2DM-HTN ( <i>n</i> = 21)	T2DM-non-HTN ( <i>n</i> = 34)	<i>t</i> / $\chi^2$	<i>P</i> value
Age (years)	53.76 $\pm$ 10.87	49.41 $\pm$ 9.99	1.517	0.135
Duration (months)	61.29 $\pm$ 64.71	54.85 $\pm$ 65.32	0.356	0.723
Sex (male, %)	17 (80.9)	28 (82.3)	0.017	0.896
Education (years)	12.18 $\pm$ 3.32	13.61 $\pm$ 3.41	-0.138	0.176
BMI (kg/m <sup>2</sup> )	25.75 $\pm$ 2.83	25.12 $\pm$ 2.92	0.784	0.437
MMSE	27.57 $\pm$ 1.47	27.76 $\pm$ 1.65	-0.439	0.662
MoCA	25.48 $\pm$ 3.08	25.00 $\pm$ 2.90	0.578	0.566
HAMD	7.14 $\pm$ 5.79	6.18 $\pm$ 5.01	0.655	0.516
HAMA	8.00 $\pm$ 6.69	7.21 $\pm$ 5.04	0.500	0.619
DST	12.86 $\pm$ 4.88	14.35 $\pm$ 5.23	-1.057	0.295
Memory scale	10.19 $\pm$ 2.69	10.40 $\pm$ 3.97	-0.210	0.835
TMT-A	50.30 $\pm$ 10.59	52.51 $\pm$ 30.72	-0.309	0.758
TMT-B	89.03 $\pm$ 41.80	99.72 $\pm$ 74.51	-0.597	0.553
SDMT	37.05 $\pm$ 10.00	43.62 $\pm$ 15.74	-1.708	0.093
AVLT-N1	3.33 $\pm$ 1.53	4.56 $\pm$ 2.16	-2.267	<b>0.027<sup>a</sup></b>
AVLT-N2	6.38 $\pm$ 2.62	7.26 $\pm$ 2.53	-1.243	0.219
AVLT-N3	7.90 $\pm$ 2.47	8.76 $\pm$ 2.69	-1.189	0.240
AVLT-N4	5.95 $\pm$ 2.91	7.88 $\pm$ 2.94	-2.375	<b>0.021<sup>a</sup></b>
AVLT-N5	5.86 $\pm$ 2.95	7.47 $\pm$ 2.89	-1.993	0.051
AVLT-N7	15.57 $\pm$ 5.11	13.24 $\pm$ 5.25	1.620	0.111
AVLT-Total Score	45.00 $\pm$ 10.58	49.18 $\pm$ 13.91	-1.180	0.243

<sup>a</sup>*P* < 0.05.

Data were presented as means  $\pm$  SD and *n* (%). BMI: Body mass index; MMSE: Mini-Mental State Examination; MoCA: Montreal Cognitive

Assessment; HAMD: Hamilton Depression Rating Scale; HAMA: Hamilton Anxiety Rating Scale; DST: Digital Span Test; TMT: Trail Making Test; SDMT: Symbol Digit Modalities Test; AVLT: Auditory Verbal Learning Test; T2DM: Type 2 diabetes mellitus; HTN: Hypertension.

**Supplementary Table 2 Demographic and clinical characteristics in type 2 diabetes mellitus-hyperlipidemia and type 2 diabetes mellitus-non-hyperlipidemia**

	T2DM-HLD (n = 28)	T2DM-non-HLD (n = 27)	<i>t</i> / $\chi^2$	<i>P</i> value
Age (years)	50.43 ± 8.71	51.74 ± 12.14	-0.462	0.646
Duration (months)	54.45 ± 61.31	60.27 ± 68.82	-0.332	0.741
Sex (male, %)	24 (85.7)	21 (77.8)	0.582	0.446
Education (years)	13.35 ± 3.53	12.84 ± 3.37	0.494	0.624
BMI (kg/m <sup>2</sup> )	26.42 ± 3.01	24.26 ± 2.30	2.976	<b>0.004<sup>a</sup></b>
MMSE	28.18 ± 1.16	27.19 ± 1.80	2.446	<b>0.018<sup>a</sup></b>
MoCA	25.61 ± 2.90	24.74 ± 3.00	1.090	0.280
HAMD	7.50 ± 6.43	5.56 ± 3.63	1.374	0.175
HAMA	8.57 ± 6.63	6.41 ± 4.34	1.426	0.160
DST	14.07 ± 4.59	13.48 ± 5.67	0.425	0.672
Memory scale	11.07 ± 3.66	9.54 ± 3.23	1.644	0.106
TMT-A	44.39 ± 11.50	59.23 ± 32.27	-2.247	<b>0.029<sup>a</sup></b>
TMT-B	79.36 ± 38.07	112.23 ± 79.12	-1.939	0.058
SDMT	43.86 ± 11.24	38.26 ± 16.29	1.488	0.143
AVLT-N1	4.07 ± 1.80	4.11 ± 2.26	-0.072	0.943
AVLT-N2	7.18 ± 2.25	6.67 ± 2.90	0.734	0.466
AVLT-N3	8.43 ± 2.24	8.44 ± 3.00	-0.022	0.982
AVLT-N4	7.14 ± 3.09	7.15 ± 3.07	-0.006	0.995
AVLT-N5	6.96 ± 3.01	6.74 ± 3.03	0.274	0.785

AVLT-N7	15.18 ± 5.09	13.04 ± 5.33	1.524	0.134
AVLT-Total Score	48.96 ± 10.48	46.15 ± 14.90	0.813	0.420

<sup>a</sup>*P* < 0.05.

Data were presented as means ± SD and *n* (%). BMI: Body mass index; MMSE: Mini-Mental State Examination; MoCA: Montreal Cognitive Assessment; HAMD: Hamilton Depression Rating Scale; HAMA: Hamilton Anxiety Rating Scale; DST: Digital Span Test; TMT: Trail Making Test; SDMT: Symbol Digit Modalities Test; AVLT: Auditory Verbal Learning Test; T2DM: Type 2 diabetes mellitus; HLD: Hyperlipidemia.

**Supplementary Table 3 Demographic and clinical characteristics in T2DM-DR and T2DM-non-DR.**

	T2DM-DR ( <i>n</i> = 13)	T2DM-non-DR ( <i>n</i> = 42)	<i>t</i> / <i>X</i> <sup>2</sup>	<i>P</i>
Age (years)	54.31 ± 8.56	50.07 ± 10.87	1.284	0.205
Duration (months)	43.62 ± 42.66	61.54 ± 69.85	-0.873	0.387
Sex (male, %)	13 (100.0)	32 (76.2)	3.783	0.052
Education (years)	12.18 ± 3.31	13.35 ± 3.45	-0.989	0.328
BMI (kg/m <sup>2</sup> )	25.02 ± 3.31	25.47 ± 2.76	-0.484	0.630
MMSE	27.77 ± 1.83	27.67 ± 1.51	0.204	0.840
MoCA	25.23 ± 3.24	25.17 ± 2.90	0.068	0.946
HAMD	6.54 ± 4.26	6.55 ± 5.62	-0.005	0.996
HAMA	8.85 ± 5.43	7.10 ± 5.75	0.971	0.336
DST	11.85 ± 3.65	14.38 ± 5.37	-1.586	0.119
Memory scale	9.15 ± 3.22	10.68 ± 3.56	-1.379	0.174
TMT-A	52.83 ± 23.65	51.30 ± 25.65	0.191	0.849
TMT-B	106.56 ± 62.62	92.24 ± 63.92	0.685	0.496
SDMT	37.46 ± 13.41	42.24 ± 14.28	-1.068	0.290

AVLT-N1	3.15 ± 1.52	4.38 ± 2.08	-1.963	0.055
AVLT-N2	6.23 ± 2.46	7.14 ± 2.60	-1.119	0.268
AVLT-N3	7.69 ± 3.28	8.67 ± 2.38	-1.178	0.244
AVLT-N4	6.08 ± 3.64	7.48 ± 2.81	-1.460	0.150
AVLT-N5	6.23 ± 3.63	7.05 ± 2.79	-0.857	0.395
AVLT-N7	12.92 ± 5.69	14.50 ± 5.15	-0.941	0.351
AVLT-Total Score	42.31 ± 15.62	49.21 ± 11.52	-1.731	0.089

Data were presented as means ± SD and number (percentage).

BMI, Body mass index; MMSE, Mini-Mental State Examination; MoCA, Montreal Cognitive Assessment; HAMD, Hamilton Depression Rating Scale; HAMA, Hamilton Anxiety Rating Scale; DST, Digital Span Test; TMT, Trail Making Test; SDMT, Symbol Digit Modalities Test; AVLT, Auditory Verbal Learning Test; T2DM, Type 2 diabetes mellitus; DR, Diabetic retinopathy.

<sup>a</sup> $P < 0.05$ .

**Supplementary Table 4 Demographic and clinical characteristics in type 2 diabetes mellitus-diabetic neuropathy and type 2 diabetes mellitus-non-diabetic neuropathy**

	T2DM-DNP (n = 13)	T2DM-non-DNP (n = 42)	t/ $\chi^2$	P value
Age (years)	51.46 ± 7.75	50.95 ± 11.24	0.152	0.880
Duration (months)	52.79 ± 50.22	58.70 ± 68.87	-0.286	0.776
Sex (male, %)	9 (69.2)	36 (85.7)	1.813	0.178
Education (years)	12.30 ± 2.87	13.29 ± 3.56	-0.802	0.427
BMI (kg/m <sup>2</sup> )	24.08 ± 2.74	25.76 ± 2.83	-1.877	0.066
MMSE	27.08 ± 2.57	27.88 ± 1.09	-1.634	0.108
MoCA	23.77 ± 3.63	25.62 ± 2.60	-2.032	<b>0.047<sup>a</sup></b>

HAMD	6.62 ± 3.99	6.52 ± 5.68	0.054	0.957
HAMA	8.54 ± 5.49	7.19 ± 5.77	0.745	0.460
DST	12.15 ± 4.49	14.29 ± 5.23	-1.325	0.191
Memory scale	8.96 ± 3.19	10.74 ± 3.54	-1.617	0.112
TMT-A	48.75 ± 18.23	52.62 ± 26.92	-0.482	0.632
TMT-B	87.99 ± 36.21	97.68 ± 69.50	-0.462	0.646
SDMT	38.38 ± 14.96	41.95 ± 13.91	-0.794	0.431
AVLT-N1	3.69 ± 2.10	4.21 ± 2.01	-0.811	0.421
AVLT-N2	6.15 ± 2.54	7.17 ± 2.57	-1.246	0.218
AVLT-N3	7.77 ± 3.03	8.64 ± 2.48	-1.053	0.297
AVLT-N4	6.23 ± 3.52	7.43 ± 2.88	-1.243	0.219
AVLT-N5	5.85 ± 3.29	7.17 ± 2.87	-1.401	0.167
AVLT-N7	12.92 ± 6.01	14.50 ± 5.05	-0.941	0.351
AVLT-Total Score	42.62 ± 15.10	49.12 ± 11.78	-1.625	0.110

<sup>a</sup> $P < 0.05$ .

Data were presented as means ± SD and  $n$  (%). BMI: Body mass index; MMSE: Mini-Mental State Examination; MoCA: Montreal Cognitive Assessment; HAMD: Hamilton Depression Rating Scale; HAMA: Hamilton Anxiety Rating Scale; DST: Digital Span Test; TMT: Trail Making Test; SDMT: Symbol Digit Modalities Test; AVLT: Auditory Verbal Learning Test; T2DM: Type 2 diabetes mellitus; DNP: Diabetic neuropathy.

**Supplementary Table 5 Demographic and clinical characteristics in type 2 diabetes mellitus-smoking and type 2 diabetes mellitus-non-smoking**

	T2DM-Smoking ( $n = 30$ )	T2DM-non-Smoking ( $n = 25$ )	$t/\chi^2$	$P$ value
Age (years)	48.20 ± 9.23	54.52 ± 10.96	-2.321	<b>0.024<sup>a</sup></b>
Duration (months)	53.28 ± 56.48	62.13 ± 74.02	-0.503	0.617

Sex (male, %)	29 (96.7)	16 (64.0)	9.782	<b>0.002<sup>a</sup></b>
Education (years)	13.32 ± 3.52	12.83 ± 3.37	0.479	0.634
BMI (kg/m <sup>2</sup> )	25.96 ± 2.82	24.64 ± 2.83	1.737	0.088
MMSE	28.03 ± 1.19	27.28 ± 1.88	1.804	0.077
MoCA	25.93 ± 2.79	24.28 ± 2.94	2.136	<b>0.037<sup>a</sup></b>
HAMD	7.20 ± 5.86	5.76 ± 4.51	1.005	0.319
HAMA	7.97 ± 6.17	6.96 ± 5.10	0.651	0.518
DST	15.27 ± 3.91	12.00 ± 5.84	2.472	<b>0.017<sup>a</sup></b>
Memory scale	10.32 ± 2.86	10.32 ± 4.23	-0.003	0.997
TMT-A	48.60 ± 22.10	55.11 ± 27.87	-0.948	0.348
TMT-B	84.88 ± 51.46	107.36 ± 73.69	-1.299	0.200
SDMT	44.13 ± 12.39	37.48 ± 15.40	1.776	0.081
AVLT-N1	4.43 ± 1.57	3.68 ± 2.43	1.388	0.171
AVLT-N2	7.60 ± 2.37	6.12 ± 2.62	2.197	<b>0.032<sup>a</sup></b>
AVLT-N3	8.83 ± 2.31	7.96 ± 2.92	1.239	0.221
AVLT-N4	7.70 ± 2.63	6.48 ± 3.43	1.493	0.141
AVLT-N5	7.53 ± 2.37	6.04 ± 3.48	1.883	0.065
AVLT-N7	14.37 ± 5.09	13.84 ± 5.58	0.366	0.716
AVLT-Total Score	50.47 ± 8.65	44.12 ± 15.98	1.873	0.067

<sup>a</sup>*P* < 0.05.

Data were presented as means ± SD and *n* (%). BMI, Body mass index; MMSE, Mini-Mental State Examination; MoCA, Montreal Cognitive Assessment; HAMD, Hamilton Depression Rating Scale; HAMA, Hamilton Anxiety Rating Scale; DST, Digital Span Test; TMT, Trail Making Test; SDMT, Symbol Digit Modalities Test; AVLT, Auditory Verbal Learning Test; T2DM, Type 2 diabetes mellitus.

**Supplementary Table 6 Demographic and clinical characteristics in type 2 diabetes mellitus-drinking and type 2 diabetes mellitus-non-drinking**

	T2DM-Drinkin g (n = 26)	T2DM-non-Drinki ng (n = 29)	t/ $\chi^2$	P value
Age (years)	50.58 $\pm$ 8.39	51.52 $\pm$ 12.15	-0.33	0.742
Duration (months)	65.50 $\pm$ 53.34	49.96 $\pm$ 73.35	0.89	0.378
Sex (male, %)	25 (96.2)	20 (69.0)	6.812	<b>0.009<sup>a</sup></b>
Education (years)	12.90 $\pm$ 3.77	13.21 $\pm$ 3.15	-0.294	0.770
BMI (kg/m <sup>2</sup> )	25.82 $\pm$ 3.11	24.95 $\pm$ 2.63	1.128	0.265
MMSE	27.92 $\pm$ 1.44	27.48 $\pm$ 1.68	1.037	0.305
MoCA	25.81 $\pm$ 2.82	24.62 $\pm$ 3.01	1.507	0.138
HAMD	6.81 $\pm$ 4.91	6.31 $\pm$ 5.69	0.345	0.731
HAMA	8.31 $\pm$ 6.70	6.79 $\pm$ 4.59	0.987	0.328
DST	14.27 $\pm$ 4.10	13.34 $\pm$ 5.90	0.667	0.508
Memory scale	10.42 $\pm$ 3.58	10.22 $\pm$ 3.52	0.208	0.836
TMT-A	47.72 $\pm$ 17.36	55.21 $\pm$ 30.07	-1.093	0.280
TMT-B	83.95 $\pm$ 38.71	105.78 $\pm$ 78.47	-1.260	0.214
SDMT	41.73 $\pm$ 11.17	40.55 $\pm$ 16.48	0.307	0.760
AVLT-N1	4.27 $\pm$ 1.95	3.93 $\pm$ 2.10	0.616	0.541
AVLT-N2	7.27 $\pm$ 2.75	6.62 $\pm$ 2.41	0.932	0.356
AVLT-N3	8.69 $\pm$ 2.70	8.21 $\pm$ 2.57	0.684	0.497
AVLT-N4	7.62 $\pm$ 3.02	6.72 $\pm$ 3.07	1.083	0.284
AVLT-N5	7.73 $\pm$ 2.85	6.07 $\pm$ 2.95	2.119	<b>0.039<sup>a</sup></b>
AVLT-N7	13.92 $\pm$ 5.78	14.31 $\pm$ 4.88	-0.270	0.789
AVLT-Total Score	49.50 $\pm$ 13.56	45.86 $\pm$ 12.06	1.053	0.297

<sup>a</sup>P < 0.05.

Data were presented as means  $\pm$  SD and n (%). BMI: Body mass index; MMSE: Mini-Mental State Examination; MoCA: Montreal Cognitive

Assessment; HAMD: Hamilton Depression Rating Scale; HAMA: Hamilton Anxiety Rating Scale; DST: Digital Span Test; TMT: Trail Making Test; SDMT: Symbol Digit Modalities Test; AVLT: Auditory Verbal Learning Test; T2DM: Type 2 diabetes mellitus.

**Supplementary Table 7 Demographic and clinical characteristics in type 2 diabetes mellitus-family history and type 2 diabetes mellitus-non-family history**

	T2DM-family history ( <i>n</i> = 22)	T2DM-non-family history ( <i>n</i> = 33)	<i>t</i> / $\chi^2$	<i>P</i> value
Age (years)	47.64 ± 9.85	53.36 ± 10.35	-2.048	0.045
Duration (months)	80.00 ± 80.36	42.18 ± 46.97	2.203	<b>0.032<sup>a</sup></b>
Sex (male, %)	18 (81.8)	27 (81.8)	0.000	1.000
Education (years)	13.68 ± 3.33	12.62 ± 3.46	1.038	0.305
BMI (kg/m <sup>2</sup> )	25.13 ± 2.10	25.51 ± 3.31	-0.475	0.637
MMSE	28.05 ± 1.21	27.45 ± 1.75	1.375	0.175
MoCA	25.82 ± 2.34	24.76 ± 3.26	1.315	0.194
HAMD	6.36 ± 4.87	6.67 ± 5.63	-0.206	0.837
HAMA	7.68 ± 6.28	7.39 ± 5.34	0.183	0.856
DST	15.00 ± 5.27	12.97 ± 4.90	1.460	0.150
Memory scale	10.55 ± 3.33	10.17 ± 3.67	0.389	0.699
TMT-A	55.07 ± 30.84	49.61 ± 20.88	0.768	0.446
TMT-B	99.77 ± 80.83	92.45 ± 48.52	0.411	0.683
SDMT	43.55 ± 14.66	39.48 ± 13.71	1.047	0.300
AVLT-N1	4.41 ± 2.04	3.88 ± 2.01	0.953	0.345
AVLT-N2	7.50 ± 2.84	6.55 ± 2.35	1.358	0.180
AVLT-N3	9.18 ± 2.72	7.94 ± 2.46	1.759	0.084
AVLT-N4	7.82 ± 2.91	6.70 ± 3.11	1.345	0.184
AVLT-N5	7.64 ± 2.97	6.33 ± 2.94	1.603	0.115



AVLT-N7	12.59 ± 4.08	15.15 ± 5.77	-1.800	0.078
AVLT-Total Score	49.14 ± 12.57	46.55 ± 13.04	0.732	0.467

<sup>a</sup>*P* < 0.05.

Data were presented as means ± SD and *n* (%). BMI: Body mass index; MMSE: Mini-Mental State Examination; MoCA: Montreal Cognitive Assessment; HAMD: Hamilton Depression Rating Scale; HAMA: Hamilton Anxiety Rating Scale; DST: Digital Span Test; TMT: Trail Making Test; SDMT: Symbol Digit Modalities Test; AVLT: Auditory Verbal Learning Test; T2DM: Type 2 diabetes mellitus.

**Supplementary Table 8 Demographic and clinical characteristics in type 2 diabetes mellitus-obesity and type 2 diabetes mellitus-non-obesity**

	T2DM-Obesity (n = 10)	T2DM-non-Obesity (n = 45)	<i>t</i> / $\chi^2$	<i>P</i> value
Age (years)	49.30 ± 11.80	51.47 ± 10.24	-0.537	0.601
Duration (months)	68.90 ± 77.30	54.73 ± 62.10	0.624	0.535
Sex (male, %)	8 (80)	37 (82.2)	0.027	0.869
Education (years)	11.00 ± 3.83	13.45 ± 3.24	-1.786	0.081
MMSE	28.10 ± 0.88	27.60 ± 1.68	0.907	0.368
MoCA	25.40 ± 3.57	25.13 ± 2.84	0.256	0.799
HAMD	9.20 ± 7.38	5.96 ± 4.61	1.789	0.079
HAMA	10.10 ± 5.24	6.93 ± 5.67	1.619	0.111
DST	15.40 ± 4.88	13.42 ± 5.14	1.111	0.272
Memory scale	10.40 ± 2.70	10.30 ± 3.70	0.081	0.936
TMT-A	37.85 ± 10.07	54.89 ± 26.33	-2.000	0.051
TMT-B	57.93 ± 14.33	104.22 ± 67.13	-2.154	<b>0.036*</b>
SDMT	47.00 ± 7.47	39.80 ± 14.94	1.476	0.146
AVLT-N1	4.30 ± 1.95	4.04 ± 2.06	0.372	0.716
AVLT-N2	6.70 ± 2.31	6.98 ± 2.65	-0.306	0.761

AVLT-N3	8.20 ± 1.87	8.49 ± 2.77	-0.313	0.755
AVLT-N4	7.20 ± 2.78	7.13 ± 3.14	0.062	0.951
AVLT-N5	6.70 ± 2.06	6.89 ± 3.19	-0.179	0.859
AVLT-N7	15.20 ± 5.20	13.89 ± 5.32	0.718	0.485
AVLT-Total Score	48.30 ± 9.71	47.42 ± 13.48	0.194	0.847

<sup>a</sup>*P* < 0.05.

Data were presented as means ± SD and *n* (%). MMSE: Mini-Mental State Examination; MoCA: Montreal Cognitive Assessment; HAMD: Hamilton Depression Rating Scale; HAMA: Hamilton Anxiety Rating Scale; DST: Digital Span Test; TMT: Trail Making Test; SDMT: Symbol Digit Modalities Test; AVLT: Auditory Verbal Learning Test; T2DM: Type 2 diabetes mellitus.

**Supplementary Table 9 Demographic and clinical characteristics in type 2 diabetes mellitus-major depressive disorder and type 2 diabetes mellitus-non-major depressive disorder**

	T2DM-MDD (n = 19)	T2DM-non-MDD (n = 36)	<i>t</i> / $\chi^2$	<i>P</i> value
Age (years)	53.68 ± 10.43	49.69 ± 10.35	1.353	0.184
Duration (months)	60.53 ± 76.94	55.61 ± 58.11	0.266	0.791
Sex (male, %)	14 (73.7)	31 (86.1)	1.291	0.256
Education (years)	11.64 ± 3.52	13.71 ± 3.22	-1.938	0.059
BMI (kg/m <sup>2</sup> )	26.05 ± 3.47	25.00 ± 2.48	1.300	0.199
MMSE	27.63 ± 1.54	27.72 ± 1.61	-0.201	0.841
MoCA	24.26 ± 3.33	25.67 ± 2.65	-1.707	0.094
HAMA	13.37 ± 5.71	4.42 ± 2.13	8.419	< <b>0.001*</b>
DST	11.89 ± 5.45	14.78 ± 4.69	-2.05	<b>0.045*</b>
Memory scale	9.47 ± 3.61	10.76 ± 3.43	-1.303	0.198
TMT-A	57.43 ± 27.48	48.71 ± 23.42	1.209	0.232

TMT-B	110.25 ± 83.16	87.89 ± 50.00	1.223	0.227
SDMT	37.47 ± 16.16	43.03 ± 12.71	-1.401	0.167
AVLT-N1	2.95 ± 1.58	4.69 ± 1.98	-3.319	<b>0.002*</b>
AVLT-N2	5.63 ± 2.43	7.61 ± 2.41	-2.891	<b>0.006*</b>
AVLT-N3	6.79 ± 2.82	9.31 ± 2.05	-3.788	< <b>0.001*</b>
AVLT-N4	5.95 ± 2.99	7.78 ± 2.93	-2.188	<b>0.033*</b>
AVLT-N5	5.84 ± 2.97	7.39 ± 2.91	-1.85	0.072
AVLT-N7	14.79 ± 6.16	13.78 ± 4.80	0.673	0.504
AVLT-Total Score	41.95 ± 14.78	50.56 ± 10.68	-2.482	<b>0.016*</b>

<sup>a</sup>*P* < 0.05.

Data were presented as means ± SD and *n* (%).

BMI: Body mass index; MMSE: Mini-Mental State Examination; MoCA: Montreal Cognitive Assessment; HAMA: Hamilton Anxiety Rating Scale; DST: Digital Span Test; TMT: Trail Making Test; SDMT: Symbol Digit Modalities Test; AVLT: Auditory Verbal Learning Test; T2DM: Type 2 diabetes mellitus; MDD: Major Depressive Disorder.

### Supplementary Table 10 Demographic and clinical characteristics in type 2 diabetes mellitus-anxiety and type 2 diabetes mellitus-non-anxiety

	T2DM-anxiety (n = 19)	T2DM-non-anxiety (n = 36)	<i>t</i> / $\chi^2$	<i>P</i> value
Age (years)	53.95 ± 10.63	49.56 ± 10.18	1.478	0.148
Duration (months)	66.11 ± 77.25	52.66 ± 57.42	0.731	0.468
Sex (male, %)	15 (78.9)	30 (83.3)	0.161	0.688
Education (years)	11.86 ± 3.44	13.61 ± 3.31	-1.627	0.111
BMI (kg/m <sup>2</sup> )	26.02 ± 3.67	25.01 ± 2.34	1.246	0.218
MMSE	27.42 ± 1.74	27.83 ± 1.48	-0.923	0.360
MoCA	24.32 ± 3.18	25.64 ± 2.76	-1.604	0.115

HAMD	11.58 ± 5.95	3.89 ± 2.00	7.086	<b>&lt;0.001*</b>
DST	11.89 ± 5.45	14.78 ± 4.69	-2.050	<b>0.045*</b>
Memory scale	9.61 ± 3.07	10.69 ± 3.71	-1.095	0.278
TMT-A	56.87 ± 27.88	49.00 ± 23.29	1.090	0.281
TMT-B	104.08 ± 83.25	91.06 ± 51.07	0.706	0.484
SDMT	38.47 ± 15.20	42.50 ± 13.50	-1.007	0.319
AVLT-N1	3.05 ± 1.58	4.64 ± 2.03	-2.960	<b>0.005*</b>
AVLT-N2	5.53 ± 2.46	7.67 ± 2.34	-3.169	<b>0.003*</b>
AVLT-N3	6.95 ± 2.74	9.22 ± 2.21	-3.343	<b>0.002*</b>
AVLT-N4	6.00 ± 2.94	7.75 ± 2.97	-2.084	<b>0.042*</b>
AVLT-N5	5.79 ± 2.88	7.42 ± 2.94	-1.965	0.055
AVLT-N7	14.47 ± 6.30	13.94 ± 4.73	0.351	0.727
AVLT-Total Score	41.79 ± 14.46	50.64 ± 10.83	-2.560	<b>0.013*</b>

<sup>a</sup>*P* < 0.05.

Data were presented as means ± SD and *n* (%).

BMI: Body mass index; MMSE: Mini-Mental State Examination; MoCA: Montreal Cognitive Assessment; HAMD: Hamilton Depression Rating Scale; DST: Digital Span Test; TMT: Trail Making Test; SDMT: Symbol Digit Modalities Test; AVLT: Auditory Verbal Learning Test; T2DM: Type 2 diabetes mellitus.