Supplement Tables

	ΤΝFα	IL-6	hsCRP
Healthy controls (HC), Median (IQR) (pg/ml)	92.9 (51.5-200.8)	5.3 (3.2-10.8)	707.6 (623.8-823.9)
MDD subtypes, Median (IQR) (pg/ml)			
Melancholic (M)	199.2 (74.7-615.8)	9.3 (3.4-18.1)	725.0 (638.4-848.1)
Atypical (At)	96.1 (55.8-267.5)	5.6 (2.7-14.9)	830.6 (711.6-905.5)
Anxious (An)	84.9 (47.6-560.9)	6.7 (3.2-21.3)	840.0 (696.0 -913.8)
P-value (adjusted P-value)			
Between Groups	0.528 (0.634)	0.937 (0.937)	0.01 7 (0.059)
MDD vs HC	0.612 (0.735)	0.604 (0.765)	0.053 (0.170)
M vs HC	0.241 (0.534)	0.526 (0.674)	0.674 (0.674)
At vs HC	0.979 (0.979)	0.788 (0.946)	<i>0.011</i> (0.058)
An vs HC	0.930 (0.930)	0.696 (0.835)	0.042 (0.111)
M vs At	0.216 (0.324)	0.714 (0.790)	0.021 (0.064)
M vs An	0.241 (0.792)	0.792 (0.792)	0.080 (0.190)
At vs An	0.906 (0.908)	0.908 (0.908)	0.523 (0.908)

Note: Median and IQR of inflammatory markers and energy markers were not logarithmically transformed (n TNF α = 153, n hsCRP = 154, n IL-6 = 151), while the *P*-value and adjusted *P*-value of the laboratory results at baseline were obtained from logarithmically transformed. The *P*-value was adjusted by the method of Benjamini - Hochberg. IQR, interquartile range. MDD, major depression disorder. HC, healthy control participants. M, melancholic subtype depression. At, typical subtype depression. An, anxious subtype depression. *vs*, versus.

	TNFα	IL-6	hsCRP
8-week follow-up, Median (IQR)			
(pg/ml)			
Melancholic (M)	114.5 (58.5-563.1)	6.1 (3.4-17.2)	742.5 (636.9-858.8)
Atypical (At)	104.2 (59.4-284.6)	5.5 (2.6-15.6)	767.4 (688.7-893.5)
Anxious (An)	121.4 (48.7-429.5)	6.9 (3.2-21.0)	831.0 (687.9-931.3)
P-value (adjusted P-value)			
Between Groups	0.735 (0.864)	0.985 (0.985)	0.397 (0.697)
M vs At	0.866 (0.866)	0.680 (0.794)	0.360 (0.608)
M vs An	0.776 (0.877)	0.877 (0.877)	0.253 (0.433)
At vs An	0.674 (0.975)	0.789 (0.975)	0.903 (0.975)
12-week follow-up, Median (IQR)			
(pg/ml)			
Melancholic (M)	121.3 (53.1-658.1)	7.0 (3.4-18.1)	742.5 (638.2-863.9)
Atypical (At)	110.8 (52.3-421.8)	5.2 (2.6-44.1)	765.1 (689.0-892.6)
Anxious (An)	109.8 (48.3-373.0)	6.8 (3.1-20.0)	837.9 (677.4-938.6)
P-value (adjusted P-value)			
Between Groups	0.594 (0.856)	0.905 (0.905)	0.496 (0.775)
M vs At	0.837 (0.837)	0.632 (0.738)	0.437 (0.714)
M vs An	0.636 (0.742)	0.939 (0.939)	0.313 (0.528)
At vs An	0.540 (0.919)	0.588 (0.919)	0.919 (0.919)

Supplementary Table 2. Laboratory and statistics results at 8-week and 12-week follow-up among groups

Note: Median and IQR of inflammatory markers and energy markers were not logarithmically transformed (n $TNF\alpha = 153$, n hsCRP = 154, n IL-6 = 151), while the *P*-value and adjusted *P*-value of the laboratory results at baseline were obtained from logarithmically transformed. The *P*-value was adjusted by the method of Benjamini - Hochberg. IQR, interquartile range. M, melancholic. At, atypical. An, anxious. vs, versus.

		TNFα							
	м	At		P-value (adjusted P-value)					
			М	An	M vs At	M vs An	At vs An		
	Remission at 8-week	7.2 (2.0)	6.2 (0.8)	7.3 (1.8)	0.364 (0.510)	0.919 (0.919)	0.241 (0.734)		
Remission	without remission at 8-week	7.7 (2.2)	8.8 (2.4)	7.1 (1.9)	0.982 (0.138)	0.655 (0.860)	0.060 (0.141)		
Kemission	Remission at 12-week	8.2 (2.1)	6.1 (0.9)	7.4 (1.7)	0.081 (0.283)	0.390 (0.725)	0.253 (0.426)		
	without remission at 12-week	7.3 (2.3)	8.2 (2.5)	6.7 (1.9)	0.132 (0.177)	0.862 (0.862)	0.115 (0.252)		
	Without pain	6.7 (1.9)	7.2 (2.4)	7.5 (2.3)	0.981 (0.981)	0.722 (0.733)	0.709 (0.931)		
Pain	Moderate or mild pain	8.2 (2.4)	7.2 (2.4)	6.8 (2.2)	0.172 (0.543)	0.042 (0.146)	0.584 (0.782)		
	Severe pain	7.3 (2.2)	6.6 (0.7)	7.8 (1.9)	0.602 (0.974)	0.686 (0.786)	0.398 (0.821)		
	Without change	7.5 (2.0)	7.3 (2.4)	6.7 (2.2)	0.887 (0.887)	0.412 (0.801)	0.528 (0.669)		
Appetite	Decreased	8.1 (2.3)	8.1 (2.3)	7.4 (2.2)	0.331 (0.579)	0.282 (0.395)	0.946 (0.977)		
	Increased	7.4 (2.7)	6.6 (2.3)	6.5 (1.9)	0.419 (0.932)	0.521 (0.967)	0.952 (0.998)		
Gastrointestinal	Without	7.5 (2.1)	7.6 (2.5)	7.3 (2.5)	0.915 (0.915)	0.886 (0.886)	0.809 (0.924)		
symptoms	With	8.0 (2.3)	7.0 (2.1)	7.2 (2.2)	0.170 (0.396)	0.238 (0.340)	0.795 (0.899)		

Supplementary Table 3. Laboratory results and related clinical symptoms between groups at baseline

Supplementary Table 3 continued.

IL-6					hsCRP						
M At Ar	A <i>m</i>	<i>P-value</i> (adjusted <i>P-value</i>)			м		A	<i>P-value</i> (adjusted <i>P-value</i>)			
IVI	At	An M vs At M vs An At vs An At	At	An	M vs At	M vs An	At vs An				
2.8 (2.3)	1.8 (0.9)	3.3 (1.5)	0.240 (0.510)	0.627 (0.824)	0.057 (0.400)	9.7 (0.3)	9.5 (0.2)	9.7 (0.3)	0.226 (0.510)	0.706 (0.824)	0.317 (0.734)
3.2 (1.7)	4.7 (2.7)	2.8 (1.7)	0.018 (0.063)	0.772 (0.860)	0.016 (0.109)	9.5 (0.3)	9.7 (0.2)	9.6 (0.4)	0.057 (0.099)	0.250 (0.860)	0.389 (0.544)
3.5 (2.2)	1.5 (1.2)	3.5 (1.3)	0.076 (0.283)	0.848 (0.848)	0.089 (0.312)	9.6 (0.4)	9.5 (0.2)	9.6 (0.3)	0.470 (0.734)	0.827 (0.848)	0.355 (0.426)
2.9 (1.7)	4.1 (2.7)	2.5 (1.7)	0.069 (0.121)	0.837 (0.862)	0.058 (0.203)	9.5 (0.2)	9.7 (0.2)	9.6 (0.4)	0.151 (0.177)	0.297 (0.862)	0.672 (0.672)

2.5 (1.8)	3.4 (2.4)	3.3 (1.8)	0.913 (0.981)	0.733 (0.733)	0.824 (0.931)	9.6 (0.4)	9.6 (0.2)	9.7 (0.3)	0.327 (0.478)	0.067 (0.136)	0.419 (0.938)
3.4 (2.1)	3.0 (2.3)	2.8 (1.9)	0.569 (0.664)	0.289 (0.404)	0.670 (0.782)	9.5 (0.3)	9.7 (0.3)	9.6 (0.3)	0.098 (0.543)	0.277 (0.398)	0.584 (0.782)
3.1 (2.2)	2.6 (0.6)	3.5 (1.8)	0.932 (0.974)	0.437 (0.764)	0.419 (0.821)	9.5 (0.1)	9.6 (0.2)	9.2 (0.5)	0.221 (0.974)	0.197 (0.764)	0.022 (0.155)
2.8 (1.6)	4.2 (2.1)	2.7 (2.2)	0.426 (0.509)	0.943 (0.943)	0.388 (0.669)	9.5 (0.3)	9.7 (0.2)	9.5 (0.5)	0.172 (0.509)	0.771 (0.899)	0.274 (0.669)
3.5 (2.2)	3.5 (2.2)	3.2 (1.8)	0.638 (0.894)	0.776 (0.776)	0.818 (0.977)	9.5 (0.2)	9.5 (0.2)	9.6 (0.3)	0.063 (0.438)	0.085 (0.227)	0.679 (0.977)
3.2 (1.8)	2.4 (2.3)	2.5 (1.0)	0.828 (0.932)	0.852 (0.967)	0.998 (0.998)	9.6 (0.3)	9.6 (0.2)	9.6 (0.3)	0.932 (0.932)	0.875 (0.967)	0.769 (0.998)
2.5 (1.2)	4.7 (1.9)	3.2 (2.4)	0.180 (0.368)	0.468 (0.616)	0.550 (0.924)	9.5 (0.3)	9.6 (0.2)	9.7 (0.4)	0.210 (0.368)	0.177 (0.319)	0.924 (0.924)
3.5 (2.1)	2.8 (2.1)	3.0 (1.7)	0.298 (0.457)	0.530 (0.618)	0.653 (0.899)	9.5 (0.3)	9.6 (0.2)	9.6 (0.3)	0.071 (0.250)	0.236 (0.340)	0.653 (0.899)

Note: Mean (standard deviation, SD) of inflammatory markers and energy markers were logarithmically transformed (n TNFa = 153, n hsCRP = 154, n IL-6 = 151). The

P-value was adjusted by the method of Benjamini - Hochberg. M, melancholic; At, atypical; An, anxious.