

Supplementary Table 1 Amplitude (μV) and Latency (ms) of N100, P200, and P300 ERP Components (Onset/Button Response) in MDD ($n = 30$) and HC ($n = 29$) Across Neutral/Negative/Positive Emotions and Left Prefrontal/Right Prefrontal/Central Regions (Mean (SD))

	MDD($n = 30$)		HC($n = 29$)	
	Amplitude (μV)	Latency (ms)	Amplitude (μV)	Latency (ms)
N100-onset				
Neutral				
Left-prefrontal (F3,F5,FC3)	-0.89(3.17)	106.78(14.83)	-2.16(3.02)	113.56(11.54)
Right-prefrontal (F4,F6,FC4)	-1.54(3.76)	106.98(13.36)	-2.38(2.68)	113.83(11.16)
Central (FZ,CZ,FCZ)	-1.32(3.21)	106.44(14.39)	-2.29(2.74)	113.70(11.53)
Negative				
Left-prefrontal (F3,F5,FC3)	-2.29(3.17)	109.32(12.98)	-4.48(3.96)	112.52(12.01)
Right-prefrontal (F4,F6,FC4)	-2.40(3.20)	111.39(11.83)	-4.06(3.52)	114.39(10.55)
Central (FZ,CZ,FCZ)	-2.38(2.83)	112.59(11.53)	-4.29(3.35)	114.25(10.53)
Positive				
Left-prefrontal (F3,F5,FC3)	-2.57(4.55)	112.45(10.44)	-4.71(4.82)	113.97(9.94)
Right-prefrontal (F4,F6,FC4)	-2.61(3.98)	112.32(10.31)	-4.35(4.55)	114.66(8.55)

Central (FZ,CZ,FCZ)	-3.06(4.08)	113.92(10.09)	-5.08(4.83)	114.87(9.80)
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N100-button response

Neutral

Left-prefrontal (F3,F5,FC3)	-1.57(3.65)	100.43(14.69)	-0.48(2.98)	99.88(11.63)
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Right-prefrontal (F4,F6,FC4)	-1.08(2.96)	95.76(14.39)	-1.17(2.57)	97.39(12.33)
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Central (FZ,CZ,FCZ)	-0.53(3.19)	98.43(15.96)	-0.67(3.04)	96.22(11.69)
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Negative

Left-prefrontal (F3,F5,FC3)	-0.76(2.99)	95.09(13.93)	-0.02(2.626)	94.70(11.59)
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Right-prefrontal (F4,F6,FC4)	-0.50(2.59)	92.75(14.08)	-0.60(2.79)	94.97(12.18)
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Central (FZ,CZ,FCZ)	-0.23(2.73)	94.36(14.08)	0.01(2.92)	94.28(10.30)
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Positive

Left-prefrontal (F3,F5,FC3)	0.46(2.98)	99.10(13.10)	0.00(2.90)	96.49(13.44)
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Right-prefrontal (F4,F6,FC4)	0.96(2.83)	97.70(13.57)	0.22(2.54)	92.07(12.14)
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Central (FZ,CZ,FCZ)	1.46(3.02)	96.49(12.30)	0.04(2.90)	95.39(12.77)
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P200-onset

Neutral

Left-prefrontal (F3,F5,FC3)	5.96(3.61)	235.73(27.47)	6.77(4.72)	246.88(19.91)
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Right-prefrontal (F4,F6,FC4)	5.01(4.03)	232.92(30.76)	6.10(4.23)	242.19(21.56)
Central (FZ,CZ,FCZ)	6.40(3.60)	235.66(26.47)	7.49(4.19)	249.16(21.74)
Negative				
Left-prefrontal (F3,F5,FC3)	6.02(4.23)	226.98(28.23)	4.07(4.06)	234.52(30.77)
Right-prefrontal (F4,F6,FC4)	5.71(4.42)	227.65(29.86)	3.60(3.06)	235.00(29.19)
Central (FZ,CZ,FCZ)	6.51(3.94)	223.64(31.23)	4.64(3.22)	239.91(27.44)
Positive				
Left-prefrontal (F3,F5,FC3)	6.98(4.38)	218.10(20.67)	6.60(4.50)	224.36(22.39)
Right-prefrontal (F4,F6,FC4)	6.95(3.81)	217.96(20.82)	6.45(3.62)	223.05(25.93)
Central (FZ,CZ,FCZ)	9.00(4.34)	220.50(22.31)	7.97(4.04)	225.95(24.10)
P200-button response				
Neutral				
Left-prefrontal (F3,F5,FC3)	4.38(4.37)	205.08(45.73)	6.04(3.68)	197.08(42.91)
Right-prefrontal (F4,F6,FC4)	5.35(4.31)	204.41(45.68)	6.33(3.27)	191.76(42.48)
Central (FZ,CZ,FCZ)	5.25(4.39)	197.20(41.21)	7.08(3.30)	190.37(38.95)
Negative				

Left-prefrontal (F3,F5,FC3)	4.65(5.56)	206.34(40.66)	6.39(4.89)	195.62(41.11)
Right-prefrontal (F4,F6,FC4)	5.23(4.49)	205.54(39.06)	6.57(4.64)	195.76(37.17)
Central (FZ,CZ,FCZ)	4.93(4.73)	193.32(38.15)	7.44(4.82)	192.03(40.97)
Positive				
Left-prefrontal (F3,F5,FC3)	5.10(4.82)	193.66(42.28)	6.79(4.47)	175.25(29.05)
Right-prefrontal (F4,F6,FC4)	6.04(4.02)	195.39(40.96)	7.92(4.68)	182.71(33.74)
Central (FZ,CZ,FCZ)	6.03(4.37)	189.38(37.50)	8.16(4.71)	178.42(32.36)
P300-onset				
Neutral				
Left-prefrontal (F3,F5,FC3)	5.87(4.82)	311.92(81.89)	6.23(4.48)	271.48(33.33)
Right-prefrontal (F4,F6,FC4)	4.79(4.67)	304.04(73.73)	5.71(4.09)	264.29(20.55)
Central (FZ,CZ,FCZ)	5.71(3.78)	289.08(68.15)	7.21(3.96)	269.68(32.11)
Negative				
Left-prefrontal (F3,F5,FC3)	6.29(5.83)	326.28(82.84)	3.14(4.01)	284.46(49.68)
Right-prefrontal (F4,F6,FC4)	5.62(5.53)	317.20(83.65)	2.83(3.16)	283.70(41.48)
Central (FZ,CZ,FCZ)	5.76(4.31)	306.78(71.60)	3.76(3.27)	272.37(37.42)

Positive

Left-prefrontal (F3,F5,FC3)	5.17(5.30)	298.96(61.03)	4.65(4.57)	278.59(45.68)
Right-prefrontal (F4,F6,FC4)	4.49(4.81)	302.04(65.53)	4.25(3.93)	269.40(29.45)
Central (FZ,CZ,FCZ)	5.83(4.52)	286.68(54.81)	6.24(4.40)	269.54(39.20)

**P300-button
response****Neutral**

Left-prefrontal (F3,F5,FC3)	2.38(5.94)	308.45(72.76)	2.44(5.85)	328.12(100.34)
Right-prefrontal (F4,F6,FC4)	3.70(5.23)	298.90(51.25)	3.25(5.91)	310.85(83.69)
Central (FZ,CZ,FCZ)	2.71(4.66)	303.51(74.35)	3.25(5.21)	324.67(98.20)

Negative

Left-prefrontal (F3,F5,FC3)	2.68(9.17)	300.90(75.92)	3.08(7.60)	319.62(90.54)
Right-prefrontal (F4,F6,FC4)	3.32(6.52)	308.05(81.21)	3.02(8.50)	318.04(96.84)
Central (FZ,CZ,FCZ)	2.43(7.33)	305.44(78.92)	3.42(7.50)	326.33(96.53)

Positive

Left-prefrontal (F3,F5,FC3)	3.11(8.39)	312.65(78.91)	4.35(6.34)	344.22(99.37)
Right-prefrontal (F4,F6,FC4)	4.02(6.57)	324.27(84.31)	5.34(7.38)	367.29(104.43)

Central (FZ,CZ,FCZ)	3.70(7.47)	325.01(90.31)	4.72(6.82)	349.12(97.89)
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Abbreviations: ERP = Event-Related Potentials; MDD = Major Depressive Disorder; HC = Healthy Controls; Left-prefrontal = Left Prefrontal Region; Right-prefrontal = Right Prefrontal Region; Central = Central Region.

Supplementary Table 2 Repeated-Measures ANOVA Results for ERP Amplitude/Latency (N100, P200, P300; Onset/Button Response) in MDD and HC

N100-onset	<i>F</i>	<i>p</i>	η^2_p	<i>df (num)</i>	<i>df (den)</i>
Group	4.718	0.034	0.076	1	57
Condition	9.554	<.001	0.144	2	114
ROI	1.492	0.229	0.026	2	114
Group×condition	0.624	0.538	0.011	2	114
Group× ROI	1.403	0.250	0.024	2	114
Condition× ROI	2.844	0.049*	0.048	2.522*	143.754*
Group×condition×ROI	0.042	0.997	0.001	4	228
N100-button response					
Group	0.028	0.867	0.000	1	57
Condition	7.648	<0.001	0.118	2	114
ROI	4.872	0.012*	0.079	1.793*	102.208*
Group×condition	1.631	0.200	0.028	2	114
Group× ROI	5.573	0.007*	0.089	1.793*	102.208*
Condition× ROI	1.672	0.171*	0.028	3.239*	184.617*
Group×condition×ROI	1.916	0.109	0.033	4	228
P200-onset					
Group	0.416	0.522	0.007	1	57
Condition	10.50	<0.001	0.156	1.97*	112.34*
ROI	22.01	<0.001	0.279	1.99*	113.67*
Group×condition	4.65	0.012	0.075	1.97*	112.34*
Group× ROI	0.03	0.966	0.001	1.99*	113.67*
Condition× ROI	7.21	<0.001	0.112	3.13*	178.39*
Group×condition×ROI	1.09	0.362	0.019	3.13*	178.39*
P200-button response					
Group	3.43	0.069	0.057	1	57
Condition	2.11	0.128	0.036	1.95*	111.26*

ROI	6.97	0.002	0.109	1.73*	98.58*
Group×condition	0.10	0.897	0.002	1.95*	111.26*
Group× ROI	1.12	0.325	0.019	1.73*	98.58*
Condition× ROI	1.32	0.270	0.023	2.96*	168.42*
Group×condition×ROI	0.94	0.421	0.016	2.96*	168.42*
P300-onset					
Group	0.468	0.497	0.008	1	57
Condition	2.75	0.068	0.046	1.99*	113.59*
ROI	13.47	<0.001	0.191	1.91*	108.56*
Group×condition	5.00	0.008	0.081	1.99*	113.59*
Group× ROI	3.11	0.051	0.052	1.91*	108.56*
Condition× ROI	4.36	0.004	0.071	3.23*	184.23*
Group×condition×ROI	0.08	0.987	0.001	3.23*	184.23*

Abbreviations: ERP = Event-Related Potentials; ANOVA = Analysis of Variance; MDD = Major Depressive Disorder; HC = Healthy Controls; ROI = Region of Interest; η^2_p = Partial Eta-Squared; df = Degrees of Freedom.