

Supplementary Material

Table 1. Task-related behavioural data for each group by testing Task.

Testing Task	Group	Reaction time Mean in milliseconds (SD)	Accuracy on discerning gender of face Mean percentage (SD)
Happy Faces	AAN	961.57 (204.53)	88.51 (3.40)
	WR	962.74 (212.32)	88.58 (3.07)
	HC	963.62 (243.62)	88.33 (3.60)
Partially Happy Faces	AAN	962.28 (230.85)	87.02 (4.21)
	WR	962.06 (217.54)	86.83 (4.11)
	HC	981.80 (242.52)	87.53 (3.39)
Neutral Faces	AAN	968.97 (235.13)	87.28 (5.27)
	WR	963.07 (242.22)	88.17 (4.11)
	HC	968.19 (246.35)	88.55 (3.84)
Partially Fear Faces	AAN	929.26 (220.47)	86.32 (6.72)
	WR	919.40 (209.47)	88.50 (3.93)
	HC	917.91 (224.30)	87.61 (4.25)
Fearful faces	AAN	950.48 (219.59)	85.09 (7.29)
	WR	960.44 (209.86)	87.25 (6.07)
	HC	949.82	87.90

	(240.29)	(4.15)
Note. AAN = acute anorexia nervosa; BMI = body mass index; HC = healthy control; SD=Standard Deviation; WR = weigh-recovered anorexia nervosa		

Table 2. Spearman’s Correlation Within-Group between Extracted Parameter Estimates for the Happy Linear Contrast between the Occipital Face Area and cluster one (28, 32, 32) and Clinical Symptoms.

HC		
Independent variable	Rho	P(FWE) value
BMI	0.16	0.92
EDE-Q global score	-0.06	1.0
HADS	<0.12	0.76
Age	-0.13	0.96
AAN		
BMI	-0.13	0.97
Illness Duration	-0.06	1.0
EDE-Q global score	0.23	0.75
HADS	0.20	0.84
Age	<0.01	1.0
WR		
BMI	0.20	0.8
Illness Duration	0.11	0.98
EDE-Q global score	<-0.01	1.0
HADS	0.04	1.0
Age	0.05	1.0
Note. AAN = acute anorexia nervosa; BMI = body mass index; EDE-Q = eating disorder examination–questionnaire version; HADS= hospital anxiety depression scale; HC = healthy control; WR = weight-recovered anorexia nervosa		

Table 3. Spearman’s Correlation Within-Group between Extracted Parameter Estimates for the Happy Linear Contrast between the Occipital Face Area and cluster two (-44 0 40) and Clinical Symptoms.

HC		
Independent variable	Rho	P(FWE) value
BMI	0.27	0.36
EDE-Q global score	-0.06	1.0
HADS	-0.13	0.97
Age	0.02	1.0
AAN		
BMI	-0.08	1.0
Illness Duration	-0.11	1.0
EDE-Q global score	0.40	0.04
HADS	0.15	0.96
Age	0.06	1.0
WR		
BMI	0.02	1.0
Illness Duration	-0.17	0.96
EDE-Q global score	-0.03	1.0
HADS	0.08	1.0
Age	-0.05	1.0
Note. AAN = acute anorexia nervosa; BMI = body mass index; EDE-Q = eating disorder examination–questionnaire version; HADS= hospital anxiety depression scale; HC = healthy control; WR = weight-recovered anorexia nervosa		

Table 4. Spearman’s Correlation For Extracted Parameter Estimates From the Happy Linear Contrast Between the Occipital Face Area and Cluster one (28, 32, 32) and Clinical Symptoms.

Variable	Rho	P(FWE)
BMI	0.00	0.909
EDE-Q	0.21	0.025
HADS	0.14	0.166
Age	-0.12	0.175

Note. AAN = acute anorexia nervosa; BMI = body mass index; EDE-Q = eating disorder examination–questionnaire version; HADS= hospital anxiety depression scale; HC = healthy control; WR = weight-recovered anorexia nervosa

Table 5. Spearman’s Correlation For Extracted Parameter Estimates From the Happy Linear Contrast between the Occipital Face Area and Cluster two (-44 0 40) and Clinical Symptoms.

Variable	Rho	P(FWE)
BMI	0.04	0.563
EDE-Q	0.19	0.048
HADS	0.12	0.340
Age	-0.07	0.556

Note. AAN = acute anorexia nervosa; BMI = body mass index; EDE-Q = eating disorder examination–questionnaire version; HADS= hospital anxiety depression scale; HC = healthy control; WR = weight-recovered anorexia nervosa

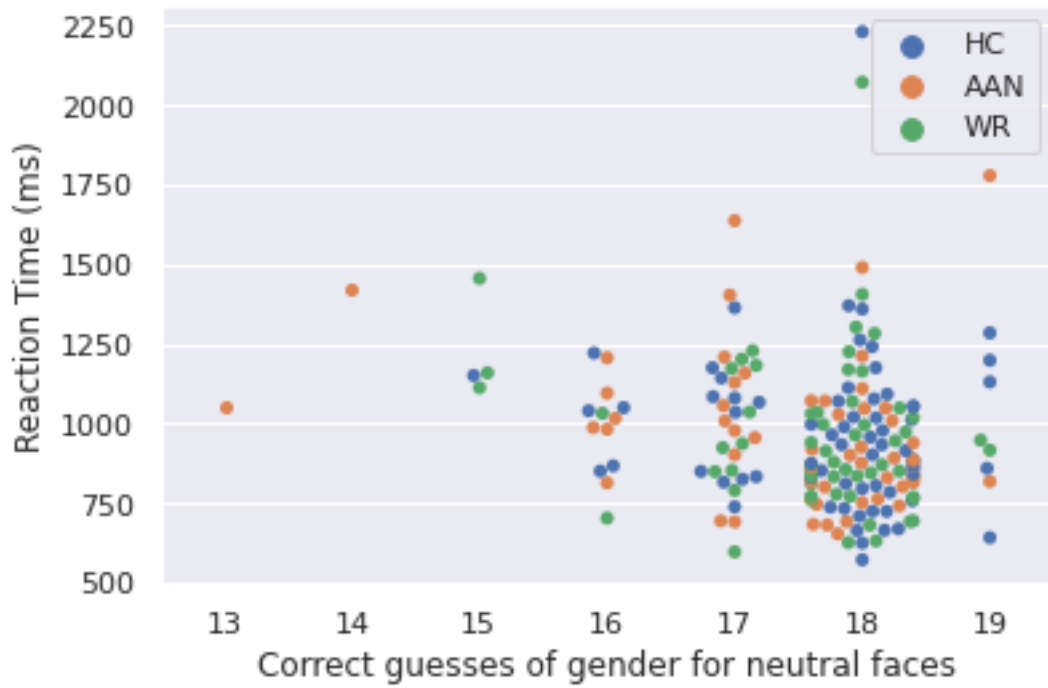


Figure S1: Plot for accuracy of neutral faces and reaction time for all three groups.

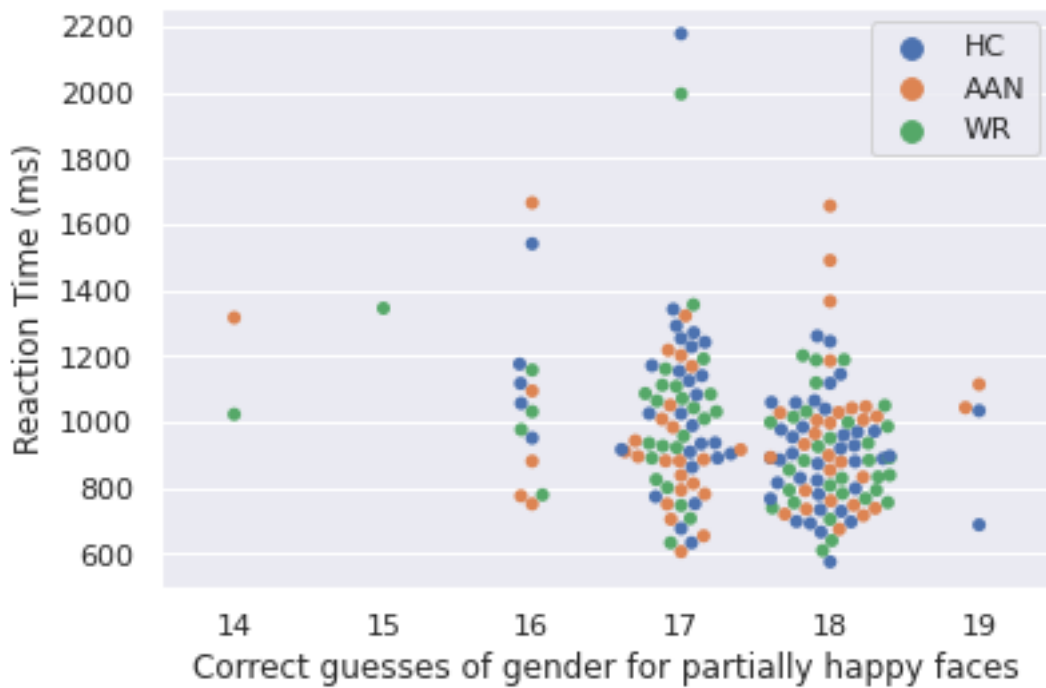


Figure S2: Plot for accuracy of happy faces and reaction time for all three groups.

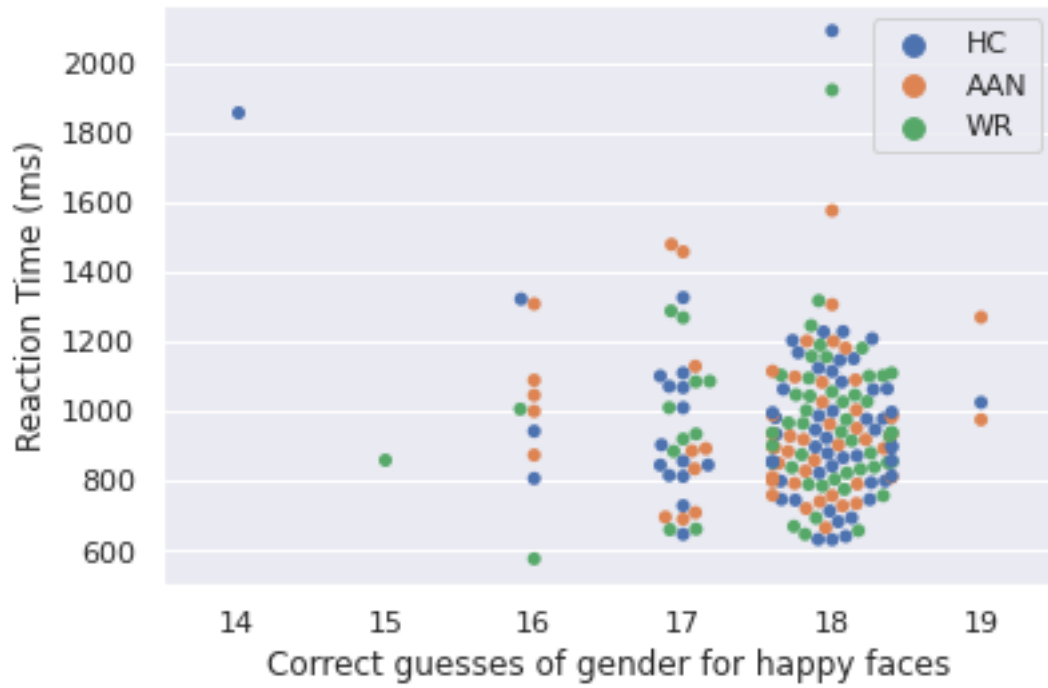


Figure S3: Plot for accuracy of partially happy faces and reaction time for all three groups.

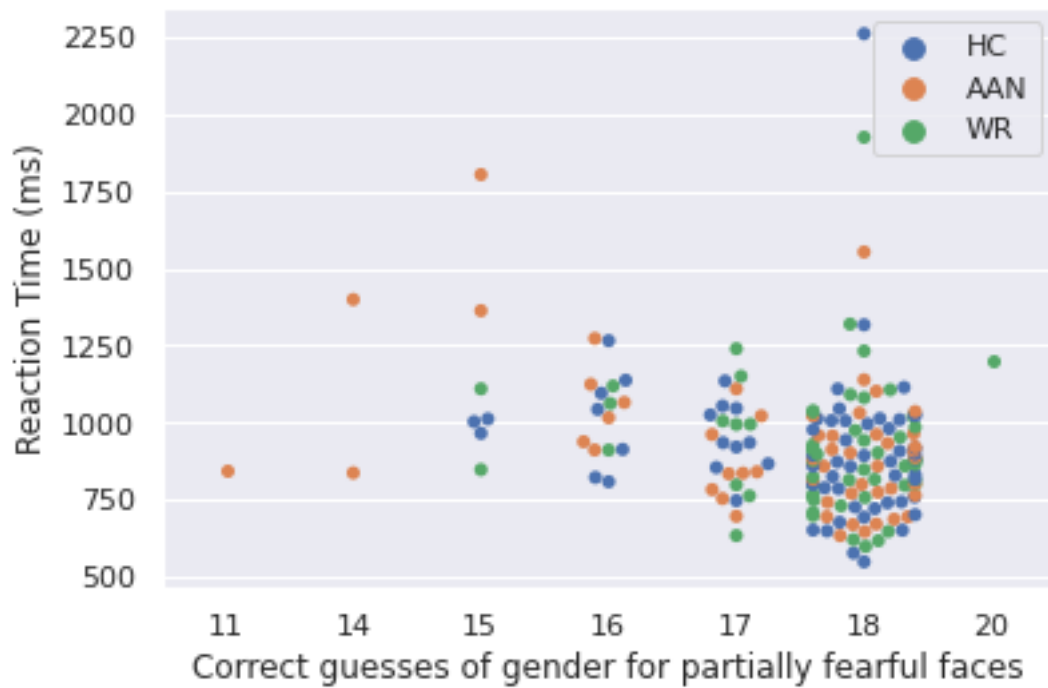


Figure S4: Plot for accuracy of partially fearful faces and reaction time for all three groups.

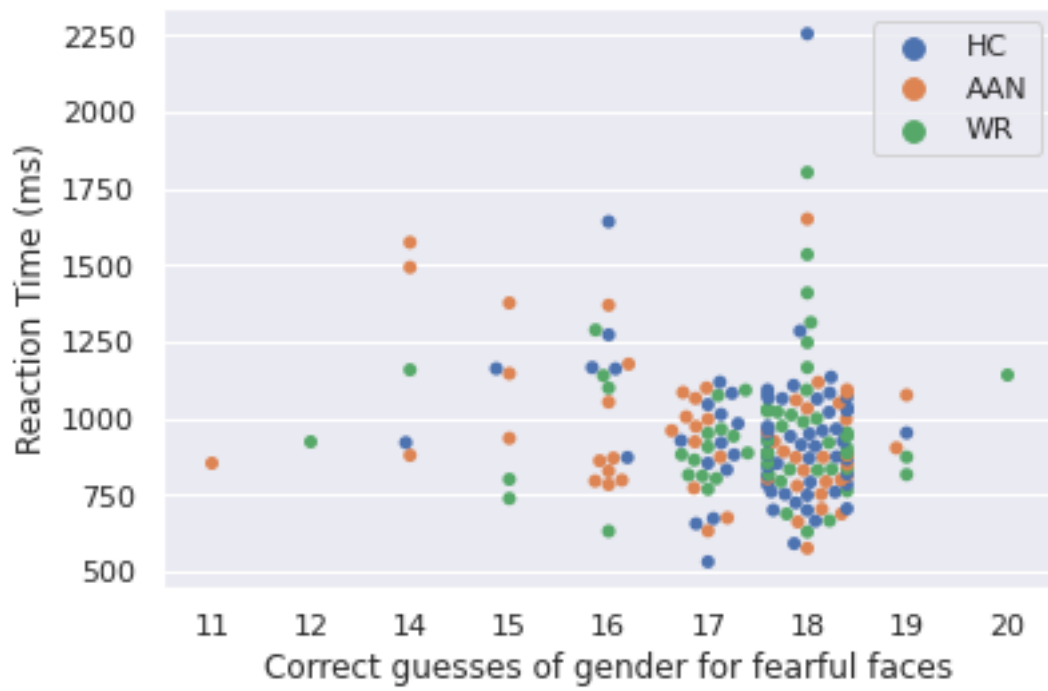


Figure S5: Plot for accuracy of fearful faces and reaction time for all three groups.