Results

Reliability Analysis

Scale Reliability Statistics

	Cronbach's α	McDonald's ω
scale	0.862	0.869

Item Reliability Statistics

	If item dropped	
	Cronbach's α	McDonald's ω
madrs1	0.840	0.848
madrs2	0.834	0.841
madrs3	0.852	0.860
madrs4	0.859	0.864
madrs5	0.873	0.879
madrs6	0.848	0.856
madrs7	0.842	0.851
madrs8	0.842	0.851
madrs9	0.845	0.853
madrs10	0.852	0.860

Reliability Analysis

Scale Reliability Statistics

	Cronbach's α	McDonald's ω
scale	0.779	0.902

Item Reliability Statistics

	If item dropped	
	Cronbach's α	**McDonald's ω**
gad1	0.748	0.888
gad2	0.746	0.888
gad3	0.753	0.889
gad4	0.749	0.888
gad5	0.761	0.904
gad6	0.757	0.901
gad7	0.749	0.898
gad8	0.850	0.856

Reliability Analysis

Scale Reliability Statistics

	Cronbach's α	McDonald's ω
scale	0.918	0.920

Item Reliability Statistics

	If item dropped	
	Cronbach's α	**McDonald's ω**
nico2	0.880	0.884
nico3	0.879	0.883
nico4	0.926	0.928
nico6	0.900	0.903
nico7	0.907	0.912

Reliability Analysis

Scale Reliability Statistics

	Cronbach's α	McDonald's ω
scale	0.829	0.835

Item Reliability Statistics

	If item dropped	
	Cronbach's α	**McDonald's ω**
alc2	0.801	0.812
alc3	0.804	0.811
alc4	0.800	0.805
alc5	0.793	0.797
alc6	0.815	0.819
alc7	0.798	0.805

Correlation Matrix

Correlation Matrix

		madrs11	gad8	nico8	alc8
madrs11	Spearman's rho	—			
	df	—			
	p-value	—			
gad8	Spearman's rho	0.552 ***	—		
	df	301	—		
	p-value	< .001	—		
nico8	Spearman's rho	0.137 *	0.103	—	
	df	301	301	—	
	p-value	0.017	0.073	—	
alc8	Spearman's rho	0.122 *	0.061	0.340 ***	—
	df	301	301	301	—
	p-value	0.034	0.291	< .001	—

Note. * p < .05, ** p < .01, *** p < .001

TestROC

This analysis is still in development: The format of results may change in future releases. Please report any errors or requests here

Welcome to PsychoPDA's Test ROC analysis To get started:

1. Place the responses in the 'Dependent Variable' slot
2. Place the classification in the 'Class Variable' slot
3. [*Optional*] Place a grouping variable in the 'Grouping Variable' slot

If you encounter any errors, or have questions, please see the documentation.

If this software is used in conducting published research, please do provide a citation using the information at the bottom of the analysis.

TestROC

Procedure Notes

The TestROC optimal cutpoint analysis has been completed using the following specifications:

Measure Variable(s): madrs11

Class Variable: depa1_DEP NOW

Positive Class: Depressed

Method: maximize_metric

All Observed Cutpoints: TRUE

Metric: prod_ppv_npv

Direction (relative to cutpoint): >=

Tie Breakers: c

Metric Tolerance: 0.05

For more information on how calculations are performed and interpretting results, please see the documentation

Results Table

Scale: madrs11

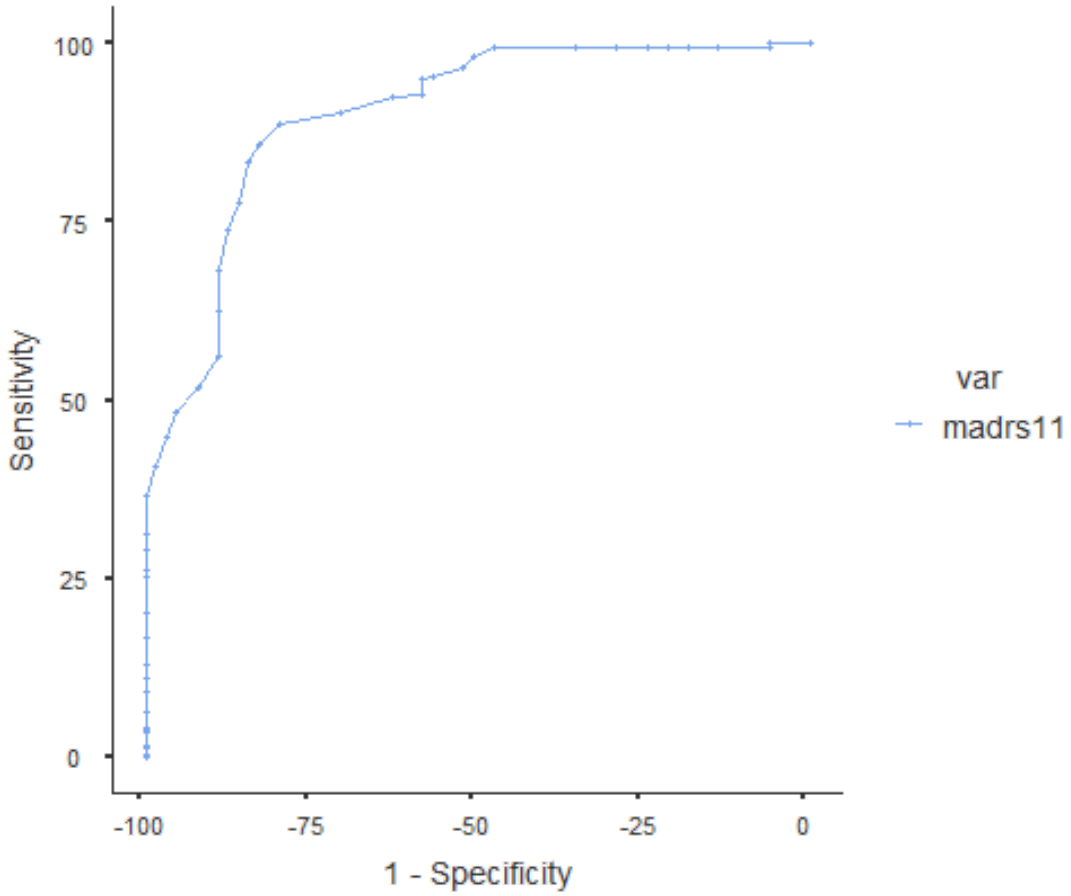
Cutpoint	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)	Youden's index	AUC	Metric Score
0	100%	0%	78.55%	NaN%	0.000	0.902	NaN
1	100%	6.15%	79.6%	100%	0.062	0.902	0.796
2	99.58%	6.15%	79.53%	80%	0.057	0.902	0.636
3	99.58%	13.85%	80.89%	90%	0.134	0.902	0.728
4	99.58%	18.46%	81.72%	92.31%	0.180	0.902	0.754
5	99.58%	21.54%	82.29%	93.33%	0.211	0.902	0.768
6	99.58%	24.62%	82.87%	94.12%	0.242	0.902	0.780
7	99.58%	29.23%	83.75%	95%	0.288	0.902	0.796
8	99.58%	35.38%	84.95%	95.83%	0.350	0.902	0.814
9	99.58%	47.69%	87.45%	96.88%	0.473	0.902	0.847
10	98.32%	50.77%	87.97%	89.19%	0.491	0.902	0.785
11	96.64%	52.31%	88.12%	80.95%	0.489	0.902	0.713
12	95.38%	56.92%	89.02%	77.08%	0.523	0.902	0.686
13	94.96%	58.46%	89.33%	76%	0.534	0.902	0.679
14	92.86%	58.46%	89.11%	69.09%	0.513	0.902	0.616
15	92.44%	63.08%	90.16%	69.49%	0.555	0.902	0.627
16	90.34%	70.77%	91.88%	66.67%	0.611	0.902	0.613
17	88.66%	80%	94.2%	65.82%	0.687	0.902	0.620
18	85.71%	83.08%	94.88%	61.36%	0.688	0.902	0.582
19	83.19%	84.62%	95.19%	57.89%	0.678	0.902	0.551
20	77.73%	86.15%	95.36%	51.38%	0.639	0.902	0.490
21	73.95%	87.69%	95.65%	47.9%	0.616	0.902	0.458
22	68.07%	89.23%	95.86%	43.28%	0.573	0.902	0.415
23	62.61%	89.23%	95.51%	39.46%	0.518	0.902	0.377
24	56.3%	89.23%	95.04%	35.8%	0.455	0.902	0.340
25	51.68%	92.31%	96.09%	34.29%	0.440	0.902	0.329
26	48.32%	95.38%	97.46%	33.51%	0.437	0.902	0.327
27	44.96%	96.92%	98.17%	32.47%	0.419	0.902	0.319
28	40.76%	98.46%	98.98%	31.22%	0.392	0.902	0.309
29	36.55%	100%	100%	30.09%	0.366	0.902	0.301
30	31.09%	100%	100%	28.38%	0.311	0.902	0.284
31	28.99%	100%	100%	27.78%	0.290	0.902	0.278
32	26.05%	100%	100%	26.97%	0.261	0.902	0.270
33	25.21%	100%	100%	26.75%	0.252	0.902	0.267
34	20.17%	100%	100%	25.49%	0.202	0.902	0.255
35	16.81%	100%	100%	24.71%	0.168	0.902	0.247
36	13.03%	100%	100%	23.9%	0.130	0.902	0.239
37	10.92%	100%	100%	23.47%	0.109	0.902	0.235
38	9.24%	100%	100%	23.13%	0.092	0.902	0.231
39	6.3%	100%	100%	22.57%	0.063	0.902	0.226
40	4.2%	100%	100%	22.18%	0.042	0.902	0.222
41	3.78%	100%	100%	22.11%	0.038	0.902	0.221
43	3.36%	100%	100%	22.03%	0.034	0.902	0.220
44	1.68%	100%	100%	21.74%	0.017	0.902	0.217
47	1.26%	100%	100%	21.67%	0.013	0.902	0.217

Scale: madrs11

Cutpoint	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)	Youden's index	AUC	Metric Score
50	0.42%	100%	100%	21.52%	0.004	0.902	0.215

ROC Curves

ROC Curve: Combined



Sensitivity & Specificity

Scale: madrs11 | Score: Inf

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	238 (FN)	0 (TP)

Scale: madrs11 | Score: 50

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	237 (FN)	1 (TP)

Scale: madrs11 | Score: 47

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	235 (FN)	3 (TP)

Scale: madrs11 | Score: 44

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	234 (FN)	4 (TP)

Scale: madrs11 | Score: 43

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	230 (FN)	8 (TP)

Scale: madrs11 | Score: 41

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	229 (FN)	9 (TP)

Scale: madrs11 | Score: 40

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	228 (FN)	10 (TP)

Scale: madrs11 | Score: 39

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	223 (FN)	15 (TP)

Scale: madrs11 | Score: 38

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	216 (FN)	22 (TP)

Scale: madrs11 | Score: 37

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	212 (FN)	26 (TP)

Scale: madrs11 | Score: 36

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	207 (FN)	31 (TP)

Scale: madrs11 | Score: 35

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	198 (FN)	40 (TP)

Scale: madrs11 | Score: 34

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	190 (FN)	48 (TP)

Scale: madrs11 | Score: 33

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	178 (FN)	60 (TP)

Scale: madrs11 | Score: 32

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	176 (FN)	62 (TP)

Scale: madrs11 | Score: 31

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	169 (FN)	69 (TP)

Scale: madrs11 | Score: 30

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	164 (FN)	74 (TP)

Scale: madrs11 | Score: 29

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	65 (TN)	0 (FP)
	Positive	151 (FN)	87 (TP)

Scale: madrs11 | Score: 28

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	64 (TN)	1 (FP)
	Positive	141 (FN)	97 (TP)

Scale: madrs11 | Score: 27

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	63 (TN)	2 (FP)
	Positive	131 (FN)	107 (TP)

Scale: madrs11 | Score: 26

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	62 (TN)	3 (FP)
	Positive	123 (FN)	115 (TP)

Scale: madrs11 | Score: 25

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	60 (TN)	5 (FP)
	Positive	115 (FN)	123 (TP)

Scale: madrs11 | Score: 24

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	58 (TN)	7 (FP)
	Positive	104 (FN)	134 (TP)

Scale: madrs11 | Score: 23

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	58 (TN)	7 (FP)
	Positive	89 (FN)	149 (TP)

Scale: madrs11 | Score: 22

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	58 (TN)	7 (FP)
	Positive	76 (FN)	162 (TP)

Scale: madrs11 | Score: 21

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	57 (TN)	8 (FP)
	Positive	62 (FN)	176 (TP)

Scale: madrs11 | Score: 20

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	56 (TN)	9 (FP)
	Positive	53 (FN)	185 (TP)

Scale: madrs11 | Score: 19

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	55 (TN)	10 (FP)
	Positive	40 (FN)	198 (TP)

Scale: madrs11 | Score: 18

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	54 (TN)	11 (FP)
	Positive	34 (FN)	204 (TP)

Scale: madrs11 | Score: 17

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	52 (TN)	13 (FP)
	Positive	27 (FN)	211 (TP)

Scale: madrs11 | Score: 16

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	46 (TN)	19 (FP)
	Positive	23 (FN)	215 (TP)

Scale: madrs11 | Score: 15

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	41 (TN)	24 (FP)
	Positive	18 (FN)	220 (TP)

Scale: madrs11 | Score: 14

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	38 (TN)	27 (FP)
	Positive	17 (FN)	221 (TP)

Scale: madrs11 | Score: 13

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	38 (TN)	27 (FP)
	Positive	12 (FN)	226 (TP)

Scale: madrs11 | Score: 12

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	37 (TN)	28 (FP)
	Positive	11 (FN)	227 (TP)

Scale: madrs11 | Score: 11

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	34 (TN)	31 (FP)
	Positive	8 (FN)	230 (TP)

Scale: madrs11 | Score: 10

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	33 (TN)	32 (FP)
	Positive	4 (FN)	234 (TP)

Scale: madrs11 | Score: 9

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	31 (TN)	34 (FP)
	Positive	1 (FN)	237 (TP)

Scale: madrs11 | Score: 8

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	23 (TN)	42 (FP)
	Positive	1 (FN)	237 (TP)

Scale: madrs11 | Score: 7

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	19 (TN)	46 (FP)
	Positive	1 (FN)	237 (TP)

Scale: madrs11 | Score: 6

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	16 (TN)	49 (FP)
	Positive	1 (FN)	237 (TP)

Scale: madrs11 | Score: 5

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	14 (TN)	51 (FP)
	Positive	1 (FN)	237 (TP)

Scale: madrs11 | Score: 4

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	12 (TN)	53 (FP)
	Positive	1 (FN)	237 (TP)

Scale: madrs11 | Score: 3

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	9 (TN)	56 (FP)
	Positive	1 (FN)	237 (TP)

Scale: madrs11 | Score: 2

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	4 (TN)	61 (FP)
	Positive	1 (FN)	237 (TP)

Scale: madrs11 | Score: 1

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	4 (TN)	61 (FP)
	Positive	0 (FN)	238 (TP)

Scale: madrs11 | Score: 0

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	0 (TN)	65 (FP)
	Positive	0 (FN)	238 (TP)

TestROC

Procedure Notes

The TestROC optimal cutpoint analysis has been completed using the following specifications:

Measure Variable(s): madrs11

Class Variable: depa1_DEP NOW

Positive Class: Depressed

Method: maximize_metric

All Observed Cutpoints: TRUE

Metric: F1_score

Direction (relative to cutpoint): >=

Tie Breakers: c

Metric Tolerance: 0.05

For more information on how calculations are performed and interpretting results, please see the documentation

Results Table

Scale: madrs11

Cutpoint	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)	Youden's index	AUC	Metric Score
0	100%	0%	78.55%	NaN%	0.000	0.902	0.880
1	100%	6.15%	79.6%	100%	0.062	0.902	0.886
2	99.58%	6.15%	79.53%	80%	0.057	0.902	0.884
3	99.58%	13.85%	80.89%	90%	0.134	0.902	0.893
4	99.58%	18.46%	81.72%	92.31%	0.180	0.902	0.898
5	99.58%	21.54%	82.29%	93.33%	0.211	0.902	0.901
6	99.58%	24.62%	82.87%	94.12%	0.242	0.902	0.905
7	99.58%	29.23%	83.75%	95%	0.288	0.902	0.910
8	99.58%	35.38%	84.95%	95.83%	0.350	0.902	0.917
9	99.58%	47.69%	87.45%	96.88%	0.473	0.902	0.931
10	98.32%	50.77%	87.97%	89.19%	0.491	0.902	0.929
11	96.64%	52.31%	88.12%	80.95%	0.489	0.902	0.922
12	95.38%	56.92%	89.02%	77.08%	0.523	0.902	0.921
13	94.96%	58.46%	89.33%	76%	0.534	0.902	0.921
14	92.86%	58.46%	89.11%	69.09%	0.513	0.902	0.909
15	92.44%	63.08%	90.16%	69.49%	0.555	0.902	0.913
16	90.34%	70.77%	91.88%	66.67%	0.611	0.902	0.911
17	88.66%	80%	94.2%	65.82%	0.687	0.902	0.913
18	85.71%	83.08%	94.88%	61.36%	0.688	0.902	0.901
19	83.19%	84.62%	95.19%	57.89%	0.678	0.902	0.888
20	77.73%	86.15%	95.36%	51.38%	0.639	0.902	0.856
21	73.95%	87.69%	95.65%	47.9%	0.616	0.902	0.834
22	68.07%	89.23%	95.86%	43.28%	0.573	0.902	0.796
23	62.61%	89.23%	95.51%	39.46%	0.518	0.902	0.756
24	56.3%	89.23%	95.04%	35.8%	0.455	0.902	0.707
25	51.68%	92.31%	96.09%	34.29%	0.440	0.902	0.672
26	48.32%	95.38%	97.46%	33.51%	0.437	0.902	0.646
27	44.96%	96.92%	98.17%	32.47%	0.419	0.902	0.617
28	40.76%	98.46%	98.98%	31.22%	0.392	0.902	0.577
29	36.55%	100%	100%	30.09%	0.366	0.902	0.535
30	31.09%	100%	100%	28.38%	0.311	0.902	0.474
31	28.99%	100%	100%	27.78%	0.290	0.902	0.450
32	26.05%	100%	100%	26.97%	0.261	0.902	0.413
33	25.21%	100%	100%	26.75%	0.252	0.902	0.403
34	20.17%	100%	100%	25.49%	0.202	0.902	0.336
35	16.81%	100%	100%	24.71%	0.168	0.902	0.288
36	13.03%	100%	100%	23.9%	0.130	0.902	0.230
37	10.92%	100%	100%	23.47%	0.109	0.902	0.197
38	9.24%	100%	100%	23.13%	0.092	0.902	0.169
39	6.3%	100%	100%	22.57%	0.063	0.902	0.119
40	4.2%	100%	100%	22.18%	0.042	0.902	0.081
41	3.78%	100%	100%	22.11%	0.038	0.902	0.073
43	3.36%	100%	100%	22.03%	0.034	0.902	0.065
44	1.68%	100%	100%	21.74%	0.017	0.902	0.033
47	1.26%	100%	100%	21.67%	0.013	0.902	0.025

Scale: madrs11

Cutpoint	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)	Youden's index	AUC	Metric Score
50	0.42%	100%	100%	21.52%	0.004	0.902	0.008