Results

TestROC

Procedure Notes

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

Measure Variable(s): mYFAS continuous scoring

Class Variable: BES cat

Positive Class: 1

Method: maximize_metric

All Observed Cutpoints: TRUE

Metric: sum_sens_spec

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

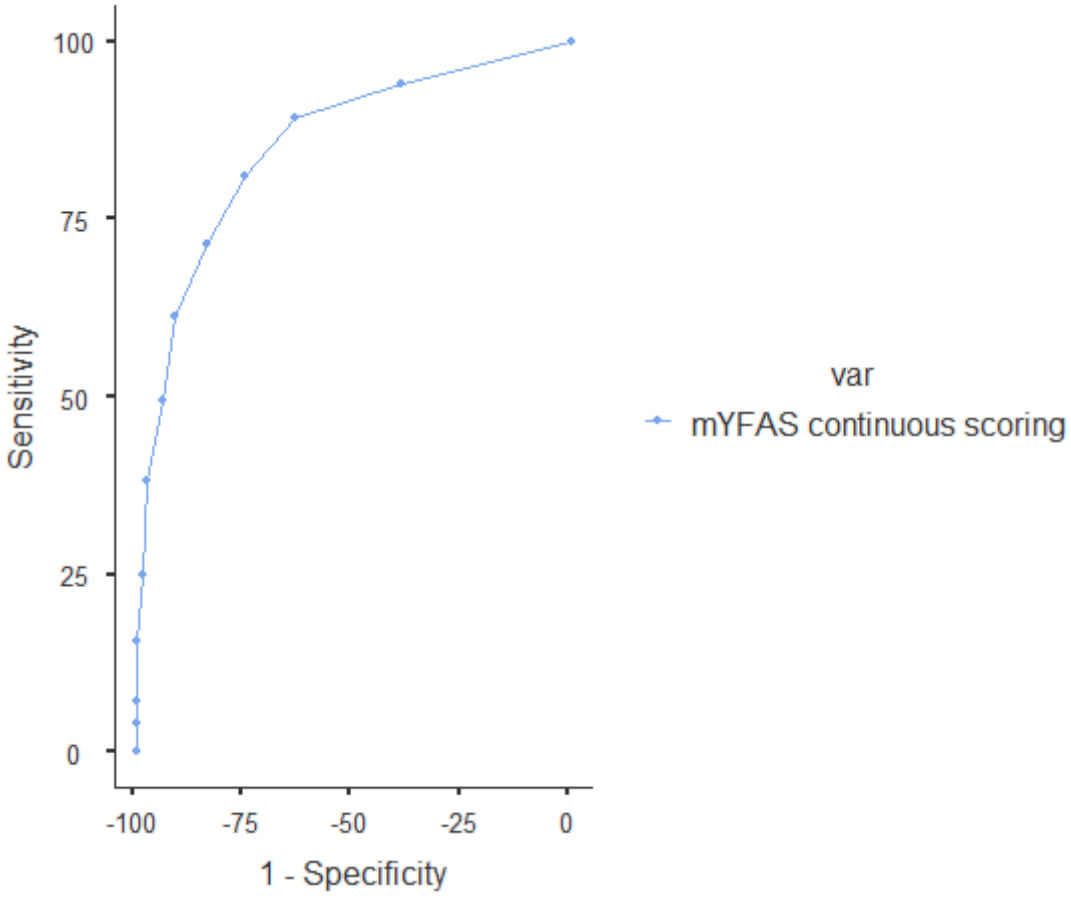
Scale: mYFAS continuous scoring

Cutpoint	Sensitivity (%)	Specificity (%)	PPV (%)	NPV (%)	Youden's index	AUC	Metric Score
0	100%	0%	55.45%	NaN%	0.0000	0.854	1.00
1	94.05%	39.26%	65.83%	84.13%	0.3331	0.854	1.33
2	89.29%	63.7%	75.38%	82.69%	0.5299	0.854	1.53
3	80.95%	74.81%	80%	75.94%	0.5577	0.854	1.56
4	71.43%	83.7%	84.51%	70.19%	0.5513	0.854	1.55
5	61.31%	91.11%	89.57%	65.43%	0.5242	0.854	1.52
6	49.4%	94.07%	91.21%	59.91%	0.4348	0.854	1.43
7	38.1%	97.78%	95.52%	55.93%	0.3587	0.854	1.36
8	25%	98.52%	95.45%	51.35%	0.2352	0.854	1.24
9	15.48%	100%	100%	48.74%	0.1548	0.854	1.15
10	7.14%	100%	100%	46.39%	0.0714	0.854	1.07
11	4.17%	100%	100%	45.61%	0.0417	0.854	1.04

[3] [4]

ROC Curves

ROC Curve: Combined



Sensitivity & Specificity

Scale: mYFAS continuous scoring | Score: Inf

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	135 (TN)	0 (FP)
	Positive	168 (FN)	0 (TP)

Scale: mYFAS continuous scoring | Score: 11

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	135 (TN)	0 (FP)
	Positive	161 (FN)	7 (TP)

Scale: mYFAS continuous scoring | Score: 10

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	135 (TN)	0 (FP)
	Positive	156 (FN)	12 (TP)

Scale: mYFAS continuous scoring | Score: 9

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	135 (TN)	0 (FP)
	Positive	142 (FN)	26 (TP)

Scale: mYFAS continuous scoring | Score: 8

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	133 (TN)	2 (FP)
	Positive	126 (FN)	42 (TP)

Scale: mYFAS continuous scoring | Score: 7

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	132 (TN)	3 (FP)
	Positive	104 (FN)	64 (TP)

Scale: mYFAS continuous scoring | Score: 6

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	127 (TN)	8 (FP)
	Positive	85 (FN)	83 (TP)

Scale: mYFAS continuous scoring | Score: 5

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	123 (TN)	12 (FP)
	Positive	65 (FN)	103 (TP)

Scale: mYFAS continuous scoring | Score: 4

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	113 (TN)	22 (FP)
	Positive	48 (FN)	120 (TP)

Scale: mYFAS continuous scoring | Score: 3

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	101 (TN)	34 (FP)
	Positive	32 (FN)	136 (TP)

Scale: mYFAS continuous scoring | Score: 2

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	86 (TN)	49 (FP)
	Positive	18 (FN)	150 (TP)

Scale: mYFAS continuous scoring | Score: 1

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	53 (TN)	82 (FP)
	Positive	10 (FN)	158 (TP)

Scale: mYFAS continuous scoring | Score: 0

		DECISION BASED ON MEASURE	
		Negative	Positive
CRITERION	Negative	0 (TN)	135 (FP)
	Positive	0 (FN)	168 (TP)

References

[1] The jamovi project (2024). *jamovi*. (Version 2.5) [Computer Software]. Retrieved from https://www.jamovi.org.

[2] R Core Team (2023). *R: A Language and environment for statistical computing*. (Version 4.3) [Computer software]. Retrieved from https://cran.r-project.org. (R packages retrieved from CRAN snapshot 2024-01-09).

[3] Thiele, C. (2019). *cutpointr: Determine and Evaluate Optimal Cutpoints in Binary Classification Tasks*. [R package]. Retrieved from https://cran.r-project.org/package=cutpointr.

[4] Friesen, L., Kroc, E., Zumbo, B. D. (2019). *Psychometrics & Post-Data Analysis: Test ROC*. [jamovi module]. Retrieved from https://github.com/lucasjfriesen/jamoviPsychoPDA.