Results

Binomial Logistic Regression

Model Fit Measures

Model	Deviance	AIC	R^2_{McF}
1	.	.	.

Model Coefficients - ...

Predictor	Estimate	SE	Z	p
Intercept	.	.	.	.

Note. Estimates represent the log odds of ...

Binomial Logistic Regression

Model Fit Measures

							Overall Model Test		
Model	Deviance	AIC	BIC	R^2_{McF}	R^2_{CS}	R^2_N	χ^2	df	p
1	99.0	107	118	0.356	0.390	0.520	54.8	3	< .001

Omnibus Likelihood Ratio Tests

Predictor	χ^2	df	p
SIZE	1.64	1	0.201
CS	6.33	1	0.012
EPI	11.76	1	< .001

[3]

Model Coefficients - CES01

		95% Confidence Interval					
Predictor	Estimate	Lower	Upper	SE	Z	p	Odds ratio
Intercept	-8.0643	-14.4372	-1.69141	3.2515	-2.48	0.013	3.15e-4
SIZE	0.6305	-0.3533	1.61419	0.5019	1.26	0.209	1.878
CS	-0.0483	-0.0878	-0.00873	0.0202	-2.39	0.017	0.953
EPI	0.0799	0.0286	0.13113	0.0261	3.06	0.002	1.083

Note. Estimates represent the log odds of "CES01 = 1" vs. "CES01 = 0"

Assumption Checks

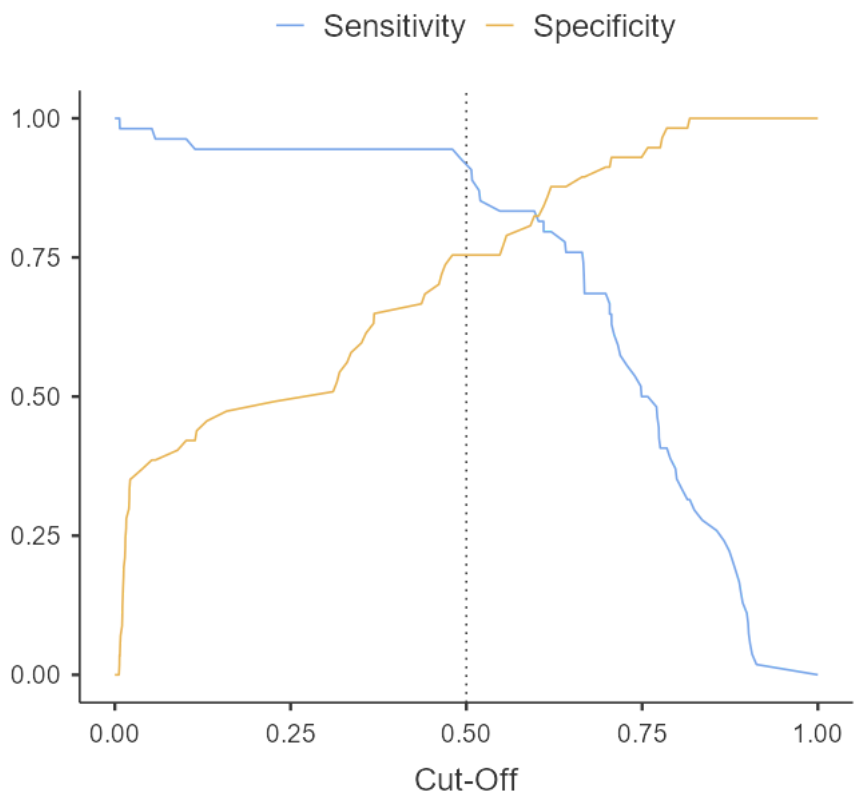
Collinearity Statistics

	VIF	Tolerance
SIZE	1.03	0.968
CS	1.04	0.965
EPI	1.05	0.956

[3]

Prediction

Cut-Off Plot



Classification Table – CES01

	Predicted		
Observed	**0**	**1**	**% Correct**
0	43	14	75.4
1	5	49	90.7

Note. The cut-off value is set to 0.5

Predictive Measures

Accuracy	Specificity	Sensitivity
0.829	0.754	0.907

Note. The cut-off value is set to 0.5

Binomial Logistic Regression

Model Fit Measures

							Overall Model Test		
Model	Deviance	AIC	BIC	R^2_{McF}	R^2_{CS}	R^2_N	χ^2	df	p
1	98.1	106	117	0.351	0.385	0.514	53.0	3	< .001

Omnibus Likelihood Ratio Tests

Predictor	χ^2	df	p
CS	4.53	1	0.033
POCT	5.53	1	0.019
ND	7.09	1	0.008

[3]

Model Coefficients - CES01

		95% Confidence Interval					
Predictor	Estimate	Lower	Upper	SE	Z	p	Odds ratio
Intercept	-6.7776	-12.9840	-0.57113	3.1666	-2.14	0.032	0.00114
CS	-0.0391	-0.0766	-0.00165	0.0191	-2.05	0.041	0.96163
POCT	1.3835	0.2007	2.56627	0.6035	2.29	0.022	3.98885
ND	0.1089	0.0184	0.19942	0.0462	2.36	0.018	1.11506

Note. Estimates represent the log odds of "CES01 = 1" vs. "CES01 = 0"

Assumption Checks

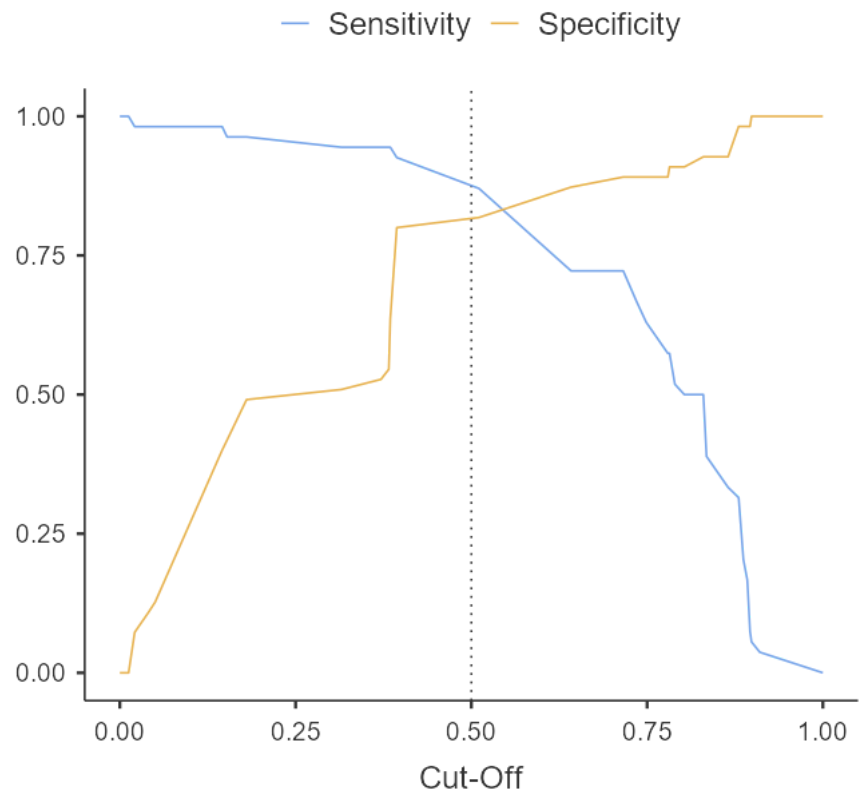
Collinearity Statistics

	VIF	Tolerance
CS	1.30	0.770
POCT	1.24	0.805
ND	1.07	0.934

[3]

Prediction

Cut-Off Plot



Classification Table – CES01

	Predicted		
Observed	**0**	**1**	**% Correct**
0	45	10	81.8
1	7	47	87.0

Note. The cut-off value is set to 0.5

Predictive Measures

Accuracy	Specificity	Sensitivity
0.844	0.818	0.870

Note. The cut-off value is set to 0.5

Binomial Logistic Regression

Model Fit Measures

							Overall Model Test		
Model	**Deviance**	**AIC**	**BIC**	**R^2_{McF}**	**R^2_{CS}**	**R^2_N**	**χ^2**	**df**	**p**
1	96.1	104	115	0.375	0.405	0.540	57.7	3	< .001

Omnibus Likelihood Ratio Tests

Predictor	χ^2	df	p
CP	20.96	1	< .001
vCS	34.41	1	< .001
SIZE	2.99	1	0.084

[3]

Model Coefficients - CES01

		95% Confidence Interval					
Predictor	**Estimate**	**Lower**	**Upper**	**SE**	**Z**	**p**	**Odds ratio**
Intercept	-4.382	-10.279	1.5140	3.0084	-1.46	0.145	0.0125
CP	-0.622	-0.927	-0.3163	0.1557	-3.99	< .001	0.5371
vCS	-0.166	-0.237	-0.0950	0.0363	-4.58	< .001	0.8469
SIZE	0.894	-0.163	1.9509	0.5393	1.66	0.097	2.4449

Note. Estimates represent the log odds of "CES01 = 1" vs. "CES01 = 0"

Assumption Checks

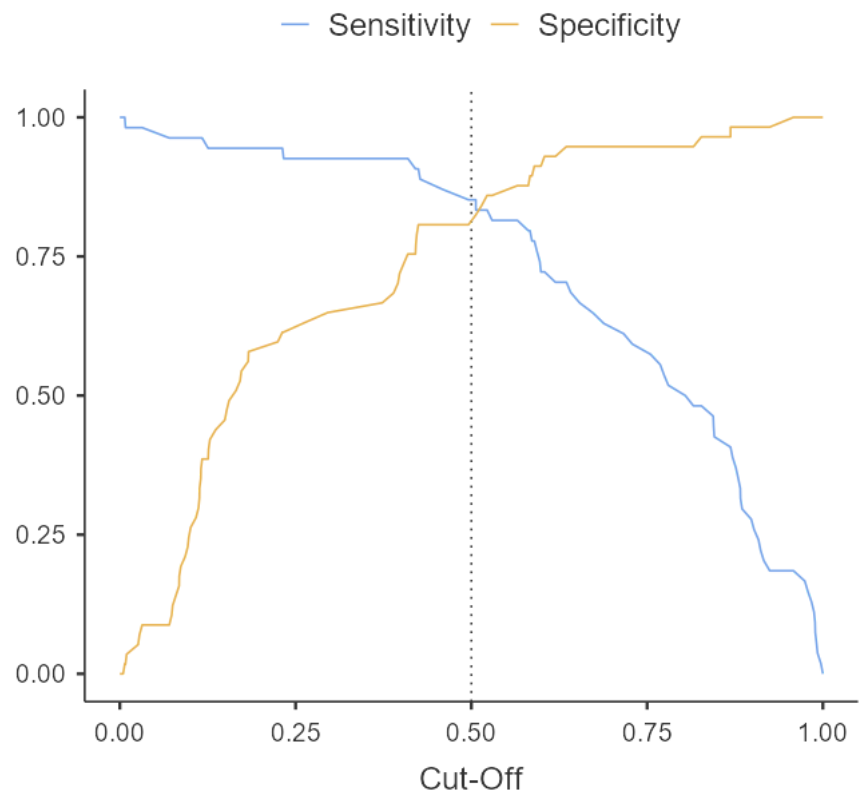
Collinearity Statistics

	VIF	Tolerance
CP	1.24	0.803
vCS	1.13	0.883
SIZE	1.11	0.904

[3]

Prediction

Cut-Off Plot



Classification Table – CES01

	Predicted		
Observed	**0**	**1**	**% Correct**
0	47	10	82.5
1	8	46	85.2

Note. The cut-off value is set to 0.5

Predictive Measures

Accuracy	Specificity	Sensitivity
0.838	0.825	0.852

Note. The cut-off value is set to 0.5

Binomial Logistic Regression

Model Fit Measures

							Overall Model Test		
Model	**Deviance**	**AIC**	**BIC**	**R^2_{McF}**	**R^2_{CS}**	**R^2_N**	**χ^2**	**df**	**p**
1	88.2	96.2	107	0.416	0.438	0.585	62.9	3	< .001

Omnibus Likelihood Ratio Tests

Predictor	χ^2	df	p
SIZE	0.728	1	0.393
vCS	13.796	1	< .001
ETI	28.629	1	< .001

[3]

Model Coefficients - CES01

		95% Confidence Interval					
Predictor	**Estimate**	**Lower**	**Upper**	**SE**	**Z**	**p**	**Odds ratio**
Intercept	-15.680	-24.491	-6.8681	4.4958	-3.488	< .001	1.55e-7
SIZE	0.451	-0.599	1.5013	0.5359	0.841	0.400	1.570
vCS	-0.107	-0.169	-0.0443	0.0318	-3.355	< .001	0.899
ETI	0.207	0.109	0.3050	0.0501	4.132	< .001	1.230

Note. Estimates represent the log odds of "CES01 = 1" vs. "CES01 = 0"

Assumption Checks

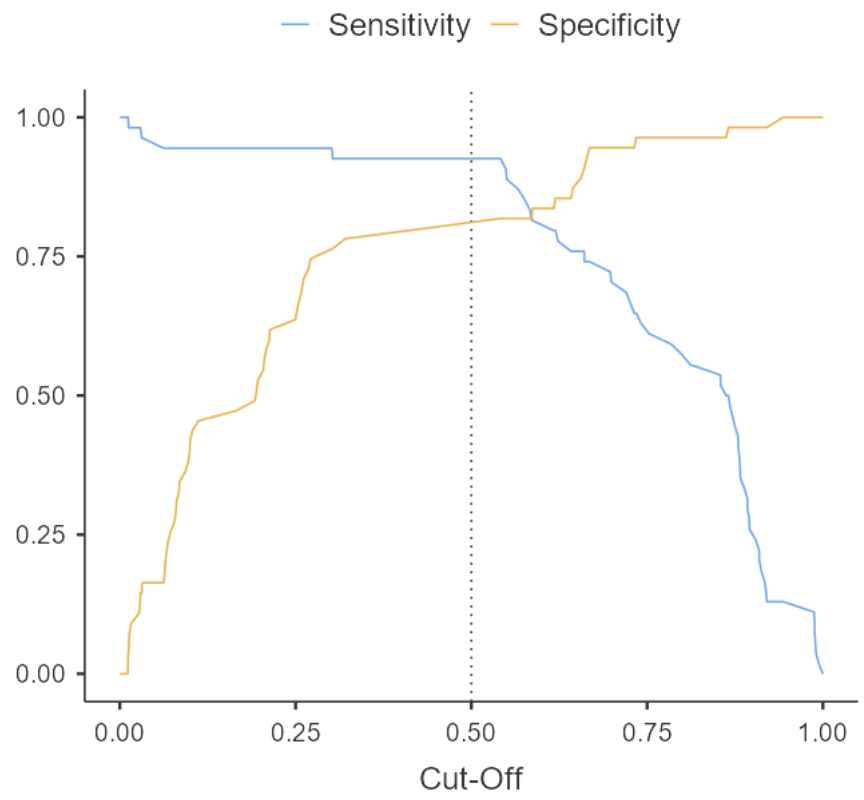
Collinearity Statistics

	VIF	Tolerance
SIZE	1.01	0.992
vCS	1.01	0.993
ETI	1.01	0.993

[3]

Prediction

Cut-Off Plot



Classification Table – CES01

	Predicted		
Observed	**0**	**1**	**% Correct**
0	45	10	81.8
1	4	50	92.6

Note. The cut-off value is set to 0.5

Predictive Measures

Accuracy	Specificity	Sensitivity
0.872	0.818	0.926

Note. The cut-off value is set to 0.5

Binomial Logistic Regression

Model Fit Measures

							Overall Model Test		
Model	**Deviance**	**AIC**	**BIC**	**R^2_{McF}**	**R^2_{CS}**	**R^2_N**	**χ^2**	**df**	**p**
1	102	110	121	0.325	0.363	0.484	49.1	3	< .001

Omnibus Likelihood Ratio Tests

Predictor	χ^2	df	p
SIZE	5.90	1	0.015
RNW	6.17	1	0.013
GFI	11.87	1	< .001

[3]

Model Coefficients - CES01

		95% Confidence Interval					
Predictor	**Estimate**	**Lower**	**Upper**	**SE**	**Z**	**p**	**Odds ratio**
Intercept	-16.5967	-24.5027	-8.691	4.0337	-4.11	< .001	6.20e-8
SIZE	1.0995	0.1553	2.044	0.4817	2.28	0.022	3.00
RNW	0.0717	0.0130	0.130	0.0299	2.39	0.017	1.07
GFI	1.6672	0.6077	2.727	0.5406	3.08	0.002	5.30

Note. Estimates represent the log odds of "CES01 = 1" vs. "CES01 = 0"

Assumption Checks

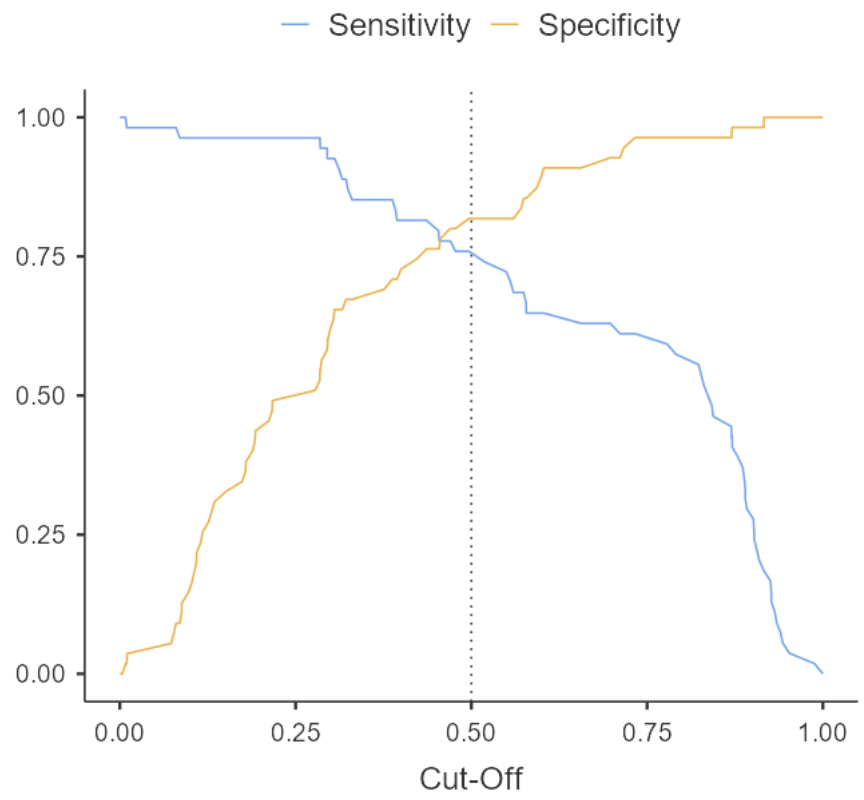
Collinearity Statistics

	VIF	Tolerance
SIZE	1.10	0.910
RNW	1.36	0.736
GFI	1.33	0.750

[3]

Prediction

Cut-Off Plot



Classification Table – CES01

	Predicted		
Observed	**0**	**1**	**% Correct**
0	45	10	81.8
1	14	40	74.1

Note. The cut-off value is set to 0.5

Predictive Measures

Accuracy	Specificity	Sensitivity
0.780	0.818	0.741

Note. The cut-off value is set to 0.5

Binomial Logistic Regression

Model Fit Measures

							Overall Model Test		
Model	**Deviance**	**AIC**	**BIC**	**R^2_{McF}**	**R^2_{CS}**	**R^2_N**	**χ^2**	**df**	**p**
1	96.1	104	115	0.375	0.405	0.541	57.7	3	< .001

Omnibus Likelihood Ratio Tests

Predictor	χ^2	df	p
CS	5.45	1	0.020
vCS	6.98	1	0.008
GFI	5.68	1	0.017

[3]

Model Coefficients - CES01

		95% Confidence Interval					
Predictor	**Estimate**	**Lower**	**Upper**	**SE**	**Z**	**p**	**Odds ratio**
Intercept	-5.0687	-10.4912	0.35378	2.7666	-1.83	0.067	0.00629
CS	-0.0361	-0.0679	-0.00418	0.0163	-2.22	0.027	0.96458
vCS	-0.0808	-0.1468	-0.01483	0.0337	-2.40	0.016	0.92236
GFI	1.0940	0.0734	2.11462	0.5207	2.10	0.036	2.98622

Note. Estimates represent the log odds of "CES01 = 1" vs. "CES01 = 0"

Assumption Checks

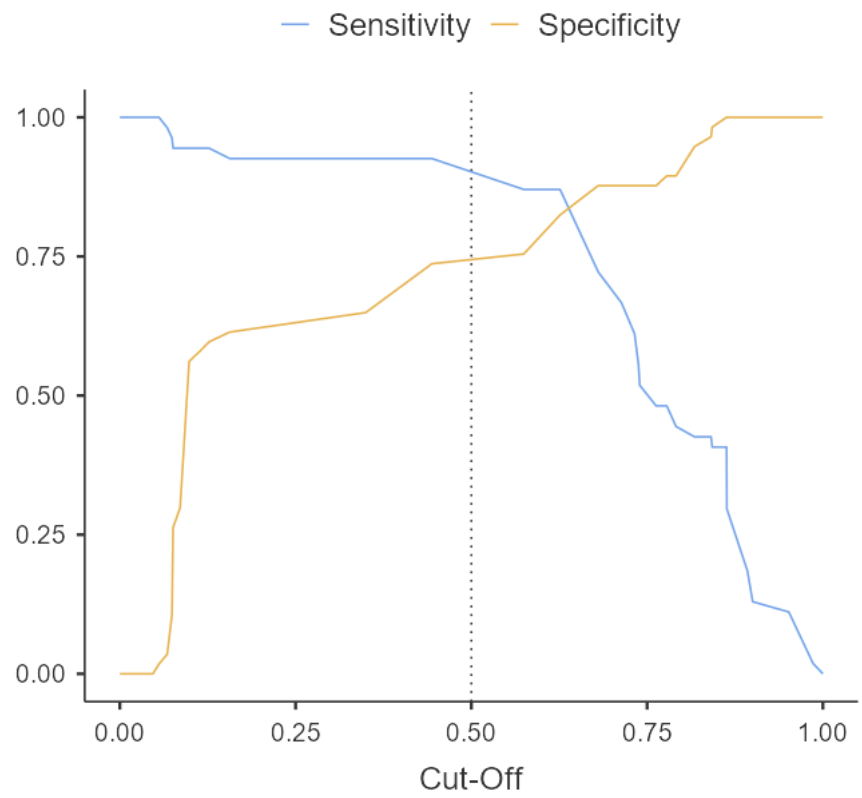
Collinearity Statistics

	VIF	Tolerance
CS	1.38	0.726
vCS	1.16	0.859
GFI	1.30	0.771

[3]

Prediction

Cut-Off Plot



Classification Table – CES01

	Predicted		
Observed	**0**	**1**	**% Correct**
0	43	14	75.4
1	7	47	87.0

Note. The cut-off value is set to 0.5

Predictive Measures

Accuracy	Specificity	Sensitivity
0.811	0.754	0.870

Note. The cut-off value is set to 0.5

Binomial Logistic Regression

Model Fit Measures

							Overall Model Test		
Model	**Deviance**	**AIC**	**BIC**	**R^2_{McF}**	**R^2_{CS}**	**R^2_N**	**χ^2**	**df**	**p**
1	100	108	119	0.336	0.372	0.496	50.8	3	< .001

Omnibus Likelihood Ratio Tests

Predictor	χ^2	df	p
CS	5.41	1	0.020
PPCA	3.26	1	0.071
ND	6.70	1	0.010

[3]

Model Coefficients - CES01

		95% Confidence Interval					
Predictor	**Estimate**	**Lower**	**Upper**	**SE**	**Z**	**p**	**Odds ratio**
Intercept	-6.4296	-12.4312	-0.42787	3.0621	-2.10	0.036	0.00161
CS	-0.0426	-0.0808	-0.00438	0.0195	-2.18	0.029	0.95829
PPCA	1.0779	-0.1034	2.25915	0.6027	1.79	0.074	2.93841
ND	0.1060	0.0169	0.19503	0.0454	2.33	0.020	1.11177

Note. Estimates represent the log odds of "CES01 = 1" vs. "CES01 = 0"

Assumption Checks

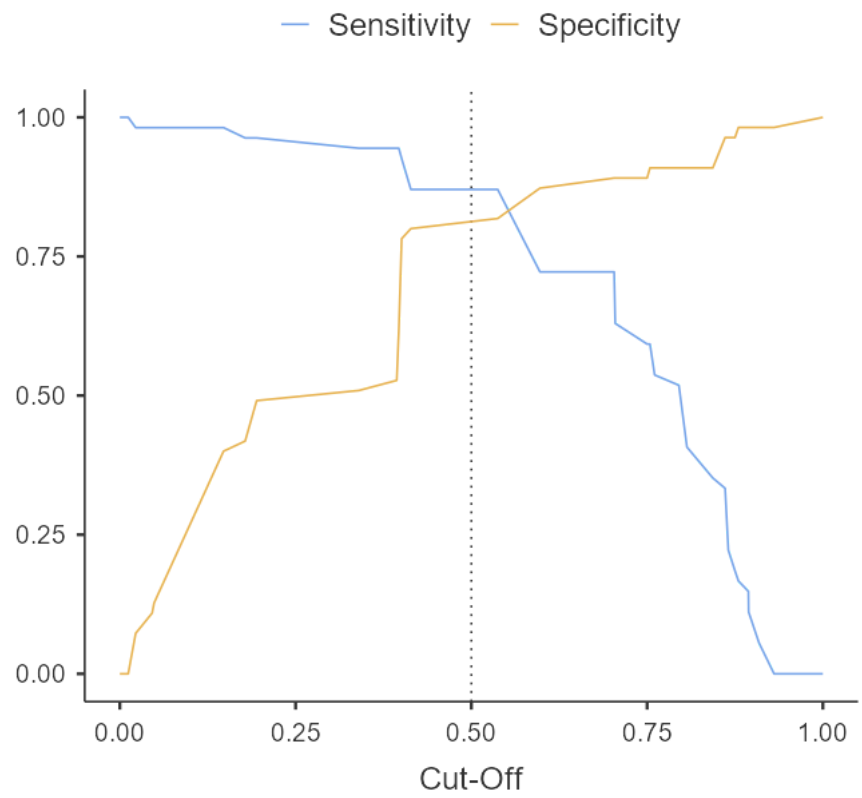
Collinearity Statistics

	VIF	Tolerance
CS	1.33	0.751
PPCA	1.34	0.745
ND	1.07	0.937

[3]

Prediction

Cut-Off Plot



Classification Table – CES01

	Predicted		
Observed	**0**	**1**	**% Correct**
0	45	10	81.8
1	7	47	87.0

Note. The cut-off value is set to 0.5

Predictive Measures

Accuracy	Specificity	Sensitivity
0.844	0.818	0.870

Note. The cut-off value is set to 0.5

Binomial Logistic Regression

Model Fit Measures

							Overall Model Test		
Model	**Deviance**	**AIC**	**BIC**	**R^2_{McF}**	**R^2_{CS}**	**R^2_N**	**χ^2**	**df**	**p**
1	96.6	105	115	0.361	0.394	0.525	54.5	3	< .001

Omnibus Likelihood Ratio Tests

Predictor	χ^2	df	p
CP	4.76	1	0.029
PPCA	5.95	1	0.015
ETI	22.72	1	< .001

[3]

Model Coefficients - CES01

		95% Confidence Interval					
Predictor	**Estimate**	**Lower**	**Upper**	**SE**	**Z**	**p**	**Odds ratio**
Intercept	-17.501	-25.7798	-9.222	4.2240	-4.14	< .001	2.51e-8
CP	0.451	0.0278	0.874	0.2160	2.09	0.037	1.57
PPCA	1.584	0.2579	2.911	0.6768	2.34	0.019	4.88
ETI	0.260	0.1347	0.386	0.0641	4.06	< .001	1.30

Note. Estimates represent the log odds of "CES01 = 1" vs. "CES01 = 0"

Assumption Checks

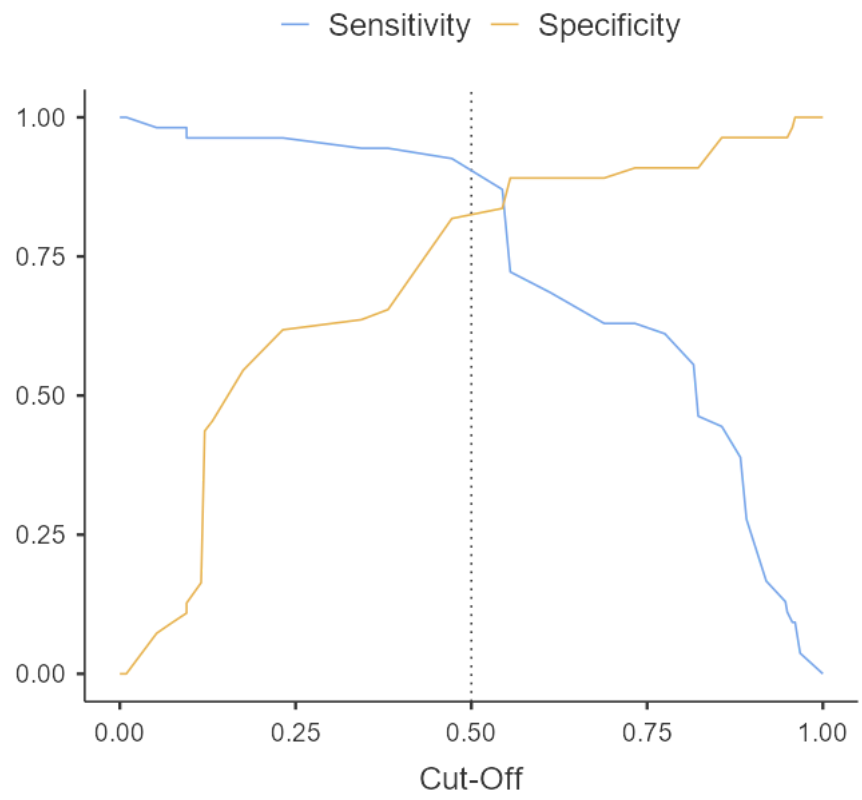
Collinearity Statistics

	VIF	Tolerance
CP	2.22	0.451
PPCA	1.56	0.642
ETI	1.85	0.540

[3]

Prediction

Cut-Off Plot



Classification Table – CES01

	Predicted		
Observed	**0**	**1**	**% Correct**
0	46	9	83.6
1	7	47	87.0

Note. The cut-off value is set to 0.5

Predictive Measures

Accuracy	Specificity	Sensitivity
0.853	0.836	0.870

Note. The cut-off value is set to 0.5

References

[1] The jamovi project (2020). *jamovi*. (Version 1.6) [Computer Software]. Retrieved from https://www.jamovi.org.

[2] R Core Team (2020). *R: A Language and environment for statistical computing*. (Version 4.0) [Computer software]. Retrieved from https://cran.r-project.org. (R packages retrieved from MRAN snapshot 2020-08-24).

[3] Fox, J., & Weisberg, S. (2020). *car: Companion to Applied Regression*. [R package]. Retrieved from https://cran.r-project.org/package=car.