

Logistic regression for SCID84

Model Fit Measures

Model	Deviance	AIC	R ² _{CS}	R ² _N	Overall Model Test		
					χ ²	df	p
1	109.4	127	0.296	0.398	37.9	8	<.001
2	94.4	122	0.387	0.520	52.9	13	<.001
3	91.4	121	0.404	0.543	56.0	14	<.001

Model Comparisons

Comparison					
Model	Model	χ ²	df	p	
1	- 2	15.01	5	0.010	
2	- 3	3.05	1	0.081	

Model Specific ResultsModel 1Model 2Model 3

Model Coefficients - SCID84

Predictor	Estimate	95% Confidence Interval		SE	Z	p	Odds ratio	95% Confidence Interval	
		Lower	Upper					Lower	Upper
Intercept	-3.4510	-6.8719	-0.0301	1.7454	-1.9772	0.048	0.0317	0.00104	0.970
Criterion A	0.0820	0.0456	0.1183	0.0185	4.4223	<.001	1.0854	1.04670	1.126
SEX:									
M – W	0.5287	-0.5108	1.5682	0.5304	0.9968	0.319	1.6967	0.60001	4.798
NB – W	1.6740	-1.0997	4.4478	1.4152	1.1829	0.237	5.3337	0.33296	85.439
EDUCATION:									
2 – 1	-0.1810	-3.7290	3.3670	1.8102	-0.1000	0.920	0.8344	0.02402	28.991
3 – 1	0.6986	-1.9863	3.3836	1.3699	0.5100	0.610	2.0110	0.13720	29.476
4 – 1	0.5949	-2.4418	3.6315	1.5493	0.3840	0.701	1.8128	0.08701	37.771
5 – 1	-0.9959	-4.0291	2.0372	1.5475	-0.6436	0.520	0.3694	0.01779	7.669
AGE	0.0199	-0.0631	0.1028	0.0423	0.4696	0.639	1.0201	0.93889	1.108

Note. Estimates represent the log odds of "SCID84 = 2" vs. "SCID84 = 1"

Assumption Checks

Collinearity Statistics

	VIF	Tolerance
Criterion A	1.11	0.904
SEX	1.09	0.917
EDUCATION	1.09	0.913
AGE	1.23	0.815

Prediction

Predictive Measures

AUC
0.818

Note. The cut-off value is set to 0.5

Model Coefficients - SCID84

Predictor	Estimate	95% Confidence Interval		SE	Z	p	Odds ratio	95% Confidence Interval	
		Lower	Upper					Lower	Upper
Intercept	-5.74427	-10.3578	-1.1308	2.3539	-2.44036	0.015	0.00320	3.17e-5	0.323
Criterion A	0.01081	-0.0560	0.0776	0.0341	0.31715	0.751	1.01087	0.94554	1.081
SEX:									
M – W	0.57203	-0.6255	1.7695	0.6110	0.93626	0.349	1.77187	0.53501	5.868
NB – W	2.14961	-0.7078	5.0070	1.4579	1.47449	0.140	8.58151	0.49275	149.451
EDUCATION:									
2 – 1	-0.81893	-4.8749	3.2371	2.0694	-0.39573	0.692	0.44090	0.00764	25.459
3 – 1	0.00941	-3.1882	3.2070	1.6315	0.00577	0.995	1.00945	0.04124	24.706
4 – 1	-0.16062	-3.8605	3.5393	1.8877	-0.08509	0.932	0.85161	0.02106	34.442
5 – 1	-0.86644	-4.3714	2.6385	1.7883	-0.48451	0.628	0.42045	0.01263	13.993
AGE	0.02439	-0.0669	0.1156	0.0466	0.52385	0.600	1.02469	0.93533	1.123
Negative_Affect	2.56823	0.6125	4.5240	0.9978	2.57379	0.010	13.04274	1.84504	92.200
Detachment	0.33449	-1.1946	1.8636	0.7802	0.42876	0.668	1.39723	0.30283	6.447
Antagonism	-0.99115	-2.6699	0.6876	0.8565	-1.15717	0.247	0.37115	0.06926	1.989
Disinhibition	1.03655	-0.4599	2.5330	0.7635	1.35758	0.175	2.81949	0.63132	12.592
Psychoticism	0.93734	-0.5938	2.4685	0.7812	1.19986	0.230	2.55317	0.55223	11.804

Note. Estimates represent the log odds of "SCID84 = 2" vs. "SCID84 = 1"

Assumption Checks

Collinearity Statistics

	VIF	Tolerance
Criterion A	1.90	0.525
SEX	1.13	0.885
EDUCATION	1.14	0.879
AGE	1.28	0.780
Negative_Affect	1.46	0.686
Detachment	1.59	0.629
Antagonism	1.34	0.747
Disinhibition	1.22	0.820
Psychoticism	1.23	0.811

Prediction

Predictive Measures

AUC
0.873

Note. The cut-off value is set to 0.5

Model Coefficients - SCID84

Predictor	Estimate	95% Confidence Interval		SE	Z	p	Odds ratio	95% Confidence Interval	
		Lower	Upper					Lower	Upper
Intercept	-4.59665	-9.3337	0.1404	2.4169	-1.902	0.057	0.0101	8.84e-5	1.15
Criterion A	0.00730	-0.0629	0.0775	0.0358	0.204	0.839	1.0073	0.93900	1.08
SEX:									
M – W	0.62199	-0.6100	1.8540	0.6286	0.990	0.322	1.8626	0.54334	6.39
NB – W	1.87923	-0.9782	4.7366	1.4579	1.289	0.197	6.5484	0.37601	114.05
EDUCATION:									
2 – 1	-1.35453	-5.3696	2.6606	2.0486	-0.661	0.508	0.2581	0.00466	14.30
3 – 1	-0.26316	-3.3307	2.8043	1.5651	-0.168	0.866	0.7686	0.03577	16.52
4 – 1	-0.55652	-4.1584	3.0454	1.8377	-0.303	0.762	0.5732	0.01563	21.02
5 – 1	-1.28904	-4.7254	2.1474	1.7533	-0.735	0.462	0.2755	0.00887	8.56
AGE	0.01985	-0.0743	0.1140	0.0480	0.413	0.679	1.0201	0.92841	1.12
Negative_Affect	2.30967	0.2770	4.3423	1.0371	2.227	0.026	10.0711	1.31916	76.89
Detachment	-0.10322	-1.7757	1.5692	0.8533	-0.121	0.904	0.9019	0.16937	4.80
Antagonism	-1.11837	-2.8242	0.5875	0.8703	-1.285	0.199	0.3268	0.05936	1.80
Disinhibition	0.82529	-0.7447	2.3953	0.8010	1.030	0.303	2.2825	0.47487	10.97
Psychoticism	0.98711	-0.6686	2.6429	0.8448	1.168	0.243	2.6835	0.51241	14.05
Number_of_diagnosis	0.71855	-0.1194	1.5565	0.4275	1.681	0.093	2.0515	0.88747	4.74

Note. Estimates represent the log odds of "SCID84 = 2" vs. "SCID84 = 1"

Assumption Checks

Collinearity Statistics

	VIF	Tolerance
Criterion A	1.94	0.516
SEX	1.14	0.876
EDUCATION	1.15	0.872
AGE	1.30	0.771
Negative_Affect	1.48	0.675
Detachment	1.70	0.588
Antagonism	1.30	0.771
Disinhibition	1.24	0.808
Psychoticism	1.24	0.807
Number_of_diagnosis	1.23	0.812

Prediction

Predictive Measures

AUC
0.881

Note. The cut-off value is set to 0.5