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Supplementary Material

Article Title: Prognostic Subgroups for Citalopram Response in the STAR*D Trial

Author(s): Ewgeni Jakubovski, MA, and Michael H. Bloch, MD, MS

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List of Supplementary Material for the article

1. **eTable 1** Statistical characteristics of receiver operating characteristic analysis models

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Supplementary eTable 1. Statistical characteristics of receiver operating characteristic analysis models.

Baseline Remission									
Node	Variable	Cut point	χ^2	p	prevalence	PPV	NPV	sensitivity	specificity
1	Employment status	1.00	78.08	0.00000	0.41	0.48	0.70	0.73	0.44
2	Income category	3.00	24.41	0.00000	0.48	0.57	0.56	0.39	0.72
3	Years of education	14.00	13.65	0.00012	0.30	0.37	0.75	0.51	0.62
4	Sex	1.00	7.51	0.00341	0.57	0.62	0.51	0.65	0.47
5	Length of illness	11.93	20.30	0.00000	0.44	0.51	0.63	0.56	0.58
6	Age	35.53	8.86	0.00160	0.36	0.48	0.68	0.39	0.76
7	SAD diagnosis	1.00	14.08	0.00009	0.25	0.30	0.85	0.81	0.36
Baseline Response									
Node	Variable	Cut point	χ^2	p	prevalence	PPV	NPV	sensitivity	specificity
1	Income category	1.00	77.70	0.00000	0.53	0.59	0.61	0.80	0.36
2	PTSD diagnosis	1.00	33.27	0.00000	0.59	0.62	0.57	0.89	0.21
3	GAD diagnosis	1.00	26.25	0.00000	0.39	0.44	0.79	0.87	0.30
4	Income category	3.00	17.28	0.00002	0.61	0.68	0.42	0.39	0.71
5	SAD diagnosis	1.00	7.97	0.00263	0.43	0.51	0.66	0.64	0.53
6	Age	36.01	12.45	0.00022	0.44	0.55	0.61	0.43	0.72
7	Years of education	16.00	8.67	0.00178	0.21	0.46	0.82	0.29	0.90
Week 2 Remission									
Node	Variable	Cut point	χ^2	p	prevalence	PPV	NPV	sensitivity	specificity
1	Symptom improvement	3.00	66.10	0.00000	0.38	0.51	0.51	0.47	0.72
2	Years of education	15.00	17.86	0.00001	0.51	0.60	0.60	0.51	0.65
3	Income category	2.00	19.70	0.00000	0.31	0.37	0.37	0.59	0.55
4	Income category	3.00	9.83	0.00094	0.60	0.71	0.71	0.49	0.70
5	Side effect intensity	3.00	13.99	0.00010	0.43	0.50	0.50	0.80	0.39
6	Side effect burden	2.00	15.87	0.00004	0.37	0.44	0.44	0.70	0.46
7	Age	33.40	10.16	0.00078	0.26	0.34	0.34	0.41	0.73
Week 2 Response									
Node	Variable	Cut point	χ^2	p	prevalence	PPV	NPV	sensitivity	specificity
1	Symptom improvement	2.00	49.88	0.00000	0.48	0.56	0.61	0.60	0.58
2	Side effect intensity	3.00	24.55	0.00000	0.56	0.63	0.55	0.71	0.46
3	Income category	2.00	24.68	0.00000	0.39	0.48	0.69	0.60	0.58
4	Income category	1.00	18.55	0.00001	0.63	0.68	0.53	0.80	0.37
5	Years of education	16.00	13.09	0.00016	0.45	0.59	0.63	0.48	0.72
6	Side effect burden	2.00	14.70	0.00007	0.48	0.56	0.64	0.70	0.49
7	Age	33.40	8.32	0.00216	0.31	0.41	0.74	0.39	0.75
Week 4 Remission									
Node	Variable	Cut point	χ^2	p	prevalence	PPV	NPV	sensitivity	specificity
1	Symptom	3.00	61.39	0.00000	0.32	0.44	0.77	0.77	0.64

	improvement								
2	Income category	2.00	17.32	0.00002	0.44	0.53	0.65	0.65	0.56
3	Symptom improvement	2.00	13.17	0.00015	0.23	0.31	0.81	0.81	0.68
4	Sex	1.00	12.99	0.00017	0.53	0.61	0.61	0.61	0.49
5	Income category	1.00	8.81	0.00164	0.35	0.44	0.74	0.74	0.56
6	Side effect frequency	2.00	6.04	0.00793	0.31	0.38	0.76	0.76	0.55
7	Income category	3.00	10.38	0.00069	0.19	0.31	0.84	0.84	0.83
Week 4 Response									
Node	Variable	Cut point	χ^2	p	prevalence	PPV	NPV	sensitivity	specificity
1	Symptom improvement	3.00	51.06	0.00000	0.42	0.59	0.59	0.42	0.79
2	Side effect burden	2.00	9.62	0.00105	0.59	0.66	0.66	0.72	0.46
3	Income category	2.00	11.77	0.00032	0.35	0.41	0.41	0.59	0.55
4	Side effect frequency	1.00	6.19	0.00725	0.66	0.73	0.73	0.63	0.56
5	Side effect intensity	3.00	5.45	0.01119	0.47	0.59	0.59	0.62	0.61
6	Side effect frequency	3.00	7.59	0.00326	0.41	0.47	0.47	0.70	0.44
7	Symptom improvement	2.00	12.26	0.00025	0.28	0.41	0.41	0.44	0.75

PPV=positive predictive value; NPV=negative predictive value