

Supplementary Tables:

Reconsidering the definition of Major Depression based on Collaborative Psychiatric Epidemiology Surveys

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Supplementary Table S1. Symptom prevalence

	Total prevalence	Prevalence in anhedonia	Prevalence in depressed mood
Depressed mood	0.2290	0.979	1.000
Loss of interest	0.1950	1.000	0.835
Weight loss	0.1500	0.666	0.650
Weight gain	0.0318	0.143	0.135
Insomnia	0.1720	0.757	0.744
Hypersomnia	0.0349	0.156	0.149
Psychomotor retardation	0.0883	0.418	0.382
Psychomotor agitation	0.0239	0.103	0.105
Fatigue	0.1930	0.877	0.832
Feelings of worthlessness or guilt	0.0957	0.459	0.417
Diminished ability to think or concentrate	0.1980	0.890	0.856
Suicidality	0.1570	0.708	0.678
Sub-group sample size	20 013	3 443	4 000
Estimated population total	209 500 125	40 818 803	47 891 758

Note: Symptom prevalence in the general (1st column), the anhedonic (2nd col), and the sad or low-mood (3rd col) population. The two last rows show the analytic sample size and the estimate for the population total, respectively.

Supplementary Table S2. Correlations between the depressive symptoms in anhedonic people.

	mood	wloss	wgain	insomnia	hypersomnia	retardation	agitation	fatigue	worthlessness	thinking	suicidal
mood	1.000	0.140	-0.290	0.160	-0.220	-0.012	-0.062	-0.053	0.130	0.063	0.170
wloss	0.140	1.000	-0.920	0.250	-0.220	0.097	0.016	-0.072	-0.053	0.015	0.030
wgain	-0.290	-0.920	1.000	-0.220	0.170	-0.066	-0.120	0.027	0.056	-0.032	-0.068
insomnia	0.160	0.250	-0.220	1.000	-0.980	0.130	0.085	-0.057	-0.037	0.210	0.150
hypersomnia	-0.220	-0.220	0.170	-0.980	1.000	-0.110	-0.150	0.089	0.024	-0.230	-0.160
retardation	-0.012	0.097	-0.066	0.130	-0.110	1.000	-0.660	0.160	0.100	0.290	-0.037
agitation	-0.062	0.016	-0.120	0.085	-0.150	-0.660	1.000	-0.390	-0.068	-0.210	-0.034
fatigue	-0.053	-0.072	0.027	-0.057	0.089	0.160	-0.390	1.000	0.016	0.130	-0.130
worthlessness	0.130	-0.053	0.056	-0.037	0.024	0.100	-0.068	0.016	1.000	0.042	0.290
thinking	0.063	0.015	-0.032	0.210	-0.230	0.290	-0.210	0.130	0.042	1.000	-0.033
suicidal	0.170	0.030	-0.068	0.150	-0.160	-0.037	-0.034	-0.130	0.290	-0.033	1.000

Note: sample n = 3443, estimated population total = 40 818 803.

Supplementary Table S3. Oblique bi-factor loadings in the anhedonic population

	Factor 1	Factor 2	Factor 3	Factor 4
Weight loss	0.3590	0.9300	-0.0059	-0.0066
Weight gain	0.0118	-0.6210	-0.0190	-0.0231
Insomnia	0.2500	0.0106	0.0163	0.7700
Hypersomnia	0.0406	0.0047	0.0076	-0.9980
Psychomotor retardation	0.3670	-0.0296	-0.2960	0.0680
Psychomotor agitation	0.0119	-0.0011	0.9970	0.0015
Fatigue	0.3400	-0.0867	-0.1080	-0.0625
Feelings of worthlessness or guilt	0.3520	-0.0903	0.0382	-0.0175
Diminished ability to think or concentrate	0.4330	-0.0990	0.0125	0.0701
Suicidal ideation	0.2700	-0.0376	0.0152	0.0610

Note: Oblique bi-factor analysis in the anhedonic population. The "bifactorQ" function from the "GPArotation" R package was applied to the factor loadings and the varimax rotation matrix of the main manuscript. This rotation method tries to find a rotation where each symptom loads onto a main factor plus one and only one other factor. The results align closely with the varimax-based interpretations of the main manuscript, with the exception of factor reordering and that the bi-factor model would further excluded weight gain from depressive symptoms. Since exploratory oblique bi-factor rotation estimates are technically challenging and may involve local maxima, we erred for a conservative choice to keep the weight-gain criterion in the diagnostic set for MD.

Supplementary Table S4. Summary of the sample and the diagnostic groups

	All			MD		MDD		MDD w/o MD	
Sub-population total	209 500 125			30 761 462		34 099 274		8 831 969	
Variable	N	Mean	SD	Mean	SD	Mean	SD	Mean	SD
Age (years)	20013	44.6	17.4	42.2	14.4	42.8	15.1	43.9	16.2
Male	20013	0.481	0.50	0.365	0.481	0.371	0.483	0.435	0.496
WHODAS	10871	3.200	8.83	5.98	9.57	4.95	8.45	3.30	6.27
Disability days	15571	1.88	6.11	3.39	7.89	2.36	7.00	1.72	5.81
Symptom: mood	20013	0.229	0.420	0.990	0.099	0.990	0.101	0.986	0.117
Symptom: anhedonia	20013	0.195	0.396	1.000	0.000	0.894	0.308	0.589	0.492
Symptom: weight loss	20013	0.15	0.357	0.721	0.448	0.68	0.467	0.586	0.493
Symptom: weight gain	20013	0.032	0.176	0.158	0.365	0.151	0.358	0.112	0.316
Symptom: insomnia	20013	0.172	0.378	0.833	0.373	0.775	0.418	0.624	0.485
Symptom: hypersomnia	20013	0.035	0.183	0.133	0.339	0.163	0.369	0.237	0.426
Symptom: mot. retard.	20013	0.088	0.284	0.498	0.500	0.416	0.493	0.209	0.407
Symptom: mot. agit.	20013	0.024	0.153	0.105	0.306	0.100	0.301	0.118	0.322
Symptom: fatigue	20013	0.193	0.395	0.927	0.261	0.887	0.317	0.770	0.421
Symptom: worthlessness	20013	0.096	0.294	0.546	0.498	0.442	0.497	0.193	0.395
Symptom: thinking	20013	0.198	0.399	0.960	0.196	0.909	0.288	0.777	0.417
Symptom: suicidal	20013	0.157	0.363	0.790	0.407	0.712	0.453	0.535	0.499

Note: Summary of the sample and the diagnostic groups. N refers to the raw number of non-missing observations for the indicated variable overall, whereas the Mean and Standard deviation (SD) refer to survey-weighted population estimates for that variable in the diagnostic group indicated in the sup-headings of the pertinent columns. Abbreviations: "WHODAS" = World Health Organization Disability Assessment Schedule -based score; "no MD(D)" = sub-group of those not satisfying MD nor MDD criteria; "MD" = sub-group of people satisfying the (new) Major Depression criteria; "MDD" = sub-group satisfying the (old) Major Depressive Disorder criteria; "MDD w/o MD" = sub-group of people satisfying the (old) MDD criteria without satisfying the (new) MD criteria. "All" refers to the entire sample/US population.