

Supplementary Table S1

Binary MINI comorbidity measures used in this study (ID: the identifier for each comorbidity feature in our experiments, Field Name: the field name in OPTiMiSE dataset).

ID	Field Name	Description
C ₁	V1_MINI_A_DEPR_CURR	A Major depressive episode: Current (2 weeks)
C ₂	V1_MINI_A_DEPR_RECURR	A Major depressive episode: Recurrent
C ₃	V1_MINI_A_DPMOOD_GNR_CURR	Mood disorder due to a general medical condition: Current
C ₄	V1_MINI_A_DPMOOD_GNR_PAST	Mood disorder due to a general medical condition: Past
C ₅	V1_MINI_A_DPMOOD_SUBST_CURR	Substance induced mood disorder: Current
C ₆	V1_MINI_A_DPMOOD_SUBST_PAST	Substance induced mood disorder: Past
C ₇	V1_MINI_A_MELANCH_CURR	Major depressive episode with melancholic features: Current (2 weeks)
C ₈	V1_MINI_A_MELANCH_RECURR	Major depressive episode with melancholic features: Recurrent
C ₉	V1_MINI_B_DYST_CURR	Dysthymia: Current (past 2 years)
C ₁₀	V1_MINI_B_DYST_PAST	Dysthymia: Past
C ₁₁	V1_MINI_C_CURR	Suicidality: Current (past month)
C ₁₂	V1_MINI_D_MANIC_CURR	Manic episode: Current
C ₁₃	V1_MINI_D_MANIC_PAST	Manic episode: Past
C ₁₄	V1_MINI_D_HYPOM_CURR	Hypomanic episode: Current
C ₁₅	V1_MINI_D_HYPOM_PAST	Hypomanic episode: Past
C ₁₆	V1_MINI_D_BIPOLII_CURR	Bipolar II disorder: Current
C ₁₇	V1_MINI_D_BIPOLII_PAST	Bipolar II disorder: Past
C ₁₈	V1_MINI_D_MANIC_GNR_CURR	(Hypo)manic episode due to a general medical condition: Current
C ₁₉	V1_MINI_D_MANIC_GNR_PAST	(Hypo)manic episode due to a general medical condition: Past
C ₂₀	V1_MINI_D_MANIC_SUBST_CURR	Substance induced (hypo)manic episode: Current
C ₂₁	V1_MINI_D_MANIC_SUBST_PAST	Substance induced (hypo)manic episode: Past
C ₂₂	V1_MINI_E_PANIC_CURR	Panic disorder: Current (Past Month)
C ₂₃	V1_MINI_E_PANIC_LIFE	Panic disorder: Life time

C24	V1_MINI_E_PANIC_GNR_CURR	Anxiety disorder with panic attacks due to a general medical condition: Current
C25	V1_MINI_E_PANIC_SUBST_CURR	Substance induced anxiety disorder with panic attacks: Current
C26	V1_MINI_F_AGORA_CURR	Agoraphobia: Current
C27	V1_MINI_F_AGORA_LIFE	Agoraphobia: Life time
C28	V1_MINI_G_SOC_CURR	Social phobia (Social anxiety disorder): Current (past month)
C29	V1_MINI_H_SPEC_CURR	Specific phobia: Current
C30	V1_MINI_I_OBSCOMP_CURR	Obsessive-compulsive disorder: Current (past month)
C31	V1_MINI_I_OCD_GNR_CURR	OCD due to a general medical condition: Current (past month)
C32	V1_MINI_I_OCD_SUBST_CURR	Substance induced OCD: Current (past month)
C33	V1_MINI_J_PTSTRESS_CURR	Posttraumatic stress disorder: Current (past month)
C34	V1_MINI_K_ALCDEP_12M	Alcohol dependence: Past 12 months
C35	V1_MINI_K_ALCDEP_LIFE	Alcohol dependence: Lifetime
C36	V1_MINI_K_ALCABS_12M	Alcohol abuse: Past 12 months
C37	V1_MINI_K_ALCABS_LIFE	Alcohol abuse: Lifetime
C38	V1_MINI_L_SUBSTDEP_12M	Substance dependence : Past 12 months
C39	V1_MINI_L_SUBSTDEP_LIFE	Substance dependence : Lifetime
C40	V1_MINI_L_SUBSTABS_12M	Substance abuse: Past 12 months
C41	V1_MINI_L_SUBSTABS_LIFE	Substance abuse: Lifetime
C42	V1_MINI_M_MOOD_CURR	Mood disorder with psychotic features: Current
C43	V1_MINI_M_MOOD_LIFE	Mood disorder with psychotic features: Lifetime
C44	V1_MINI_M_MOODNOS_LIFE	Mood disorder NOS: Lifetime
C45	V1_MINI_M_MAJDEP_CURR	Major depressive disorder with psychotic features: Current
C46	V1_MINI_M_MAJDEP_PAST	Major depressive disorder with psychotic features: Past
C47	V1_MINI_M_BIPOLI_CURR	Bipolar I disorder with psychotic features: Current
C48	V1_MINI_M_BIPOLI_PAST	Bipolar I disorder with psychotic features: Past