

Supplementary Table 1. Model structure, parameters, coefficients, standard errors, and p-values of monthly percentage of high stress, severe depression, and suicide risk from SARIMAX model stratified by age group, gender, and region

Mental well-being	Age group (years)	Gender	Region	Model structure	Parameter	Coefficient	Standard error	P-values
High stress	18–34	Female	Bangkok Metropolitan	(3, 1, 0)[2, 1, 0]	AR.L1	-0.73	0.19	0.00
					AR.L2	-0.51	0.18	0.00
					AR.L3	-0.57	0.21	0.01
					AR.S.L12	-0.77	0.26	0.00
					AR.S.L24	-0.64	0.19	0.00
					Sigma2	81.33	26.83	0.00
		Male	Bangkok Metropolitan	(1, 1, 1)[0, 0, 0]	AR.L1	0.62	0.23	0.01
					MA.L1	-0.94	0.18	0.00
					Sigma2	50.59	5.14	0.00
		Female	Non-Bangkok Metropolitan	(0, 1, 2)[2, 1, 0]	MA.L1	-0.28	0.17	0.10
					MA.L2	-0.29	0.30	0.35
					AR.S.L12	-0.67	0.24	0.00
					AR.S.L24	-0.32	0.76	0.67
					Sigma2	102.26	34.10	0.00
		Male	Non-Bangkok Metropolitan	(3, 1, 0)[2, 1, 0]	AR.L1	-0.95	0.15	0.00
					AR.L2	-0.83	0.27	0.00
					AR.L3	-0.78	0.33	0.02
					AR.S.L12	-0.77	0.31	0.01
					AR.S.L24	-0.47	0.36	0.19
					Sigma2	53.92	25.21	0.03
	≥35	Female	Bangkok Metropolitan	(0, 1, 0)[0, 1, 1]	MA.S.L12	-0.75	0.75	0.31
					Sigma2	41.46	23.31	0.08
		Male	Bangkok Metropolitan	(2, 1, 0)[0, 1, 0]	AR.L1	-0.82	0.18	0.00
					AR.L2	-0.71	0.03	0.00
					Sigma2	325.81	30.84	0.00
		Female	Non-Bangkok Metropolitan	(0, 1, 1)[2, 1, 0]	MA.L1	-0.43	0.14	0.00
					AR.S.L12	-0.88	0.16	0.00
					AR.S.L24	-0.68	0.16	0.00
					Sigma2	15.19	5.70	0.01
		Male	Non-Bangkok Metropolitan	(3, 1, 0)[2, 1, 0]	AR.L1	-0.45	0.18	0.01
					AR.L2	-0.36	0.23	0.11
					AR.L3	-0.38	0.21	0.07
					AR.S.L12	-0.79	0.19	0.00
					AR.S.L24	-0.59	0.21	0.00
					Sigma2	5.52	2.11	0.01

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Mental well-being	Age group (years)	Gender	Region	Model structure	Parameter	Coefficient	Standard error	P-values
Severe depression	18–34	Female	Bangkok Metropolitan	(3, 1, 0)[2, 1, 0]	AR.L1	-0.77	0.21	0.00
					AR.L2	-0.59	0.18	0.00
					AR.L3	-0.57	0.21	0.01
					AR.S.L12	-0.71	0.30	0.02
					AR.S.L24	-0.44	0.29	0.13
					Sigma2	121.19	41.08	0.00
			Non-Bangkok Metropolitan	(0, 1, 1)[0, 1, 1]	MA.L1	-0.33	0.13	0.01
					MA.S.L12	-0.80	0.76	0.29
					Sigma2	135.80	84.62	0.11
		Male	Bangkok Metropolitan	(0, 1, 2)[1, 1, 0]	MA.L1	-0.37	0.15	0.01
					MA.L2	-0.41	0.33	0.21
					AR.S.L12	-0.69	0.12	0.00
					Sigma2	91.90	29.97	0.00
			Non-Bangkok Metropolitan	(0, 1, 1)[0, 1, 1]	MA.L1	-0.36	0.09	0.00
					MA.S.L12	-0.66	0.39	0.09
					Sigma2	87.90	22.90	0.00
	≥35	Female	Bangkok Metropolitan	(0, 1, 0)[0, 1, 0]	Sigma2	148.40	19.52	0.00
			Non-Bangkok Metropolitan	(0, 1, 1)[2, 1, 0]	MA.L1	-0.29	0.14	0.04
					AR.S.L12	-0.74	0.18	0.00
					AR.S.L24	-0.52	0.13	0.00
					Sigma2	24.59	6.02	0.00
		Male	Bangkok Metropolitan	(0, 1, 1)[0, 1, 0]	MA.L1	-0.93	0.32	0.00
					Sigma2	319.69	99.98	0.00
			Non-Bangkok Metropolitan	(0, 1, 1)[2, 1, 0]	MA.L1	-0.55	0.14	0.00
					AR.S.L12	-0.85	0.18	0.00
					AR.S.L24	-0.57	0.17	0.00
					Sigma2	8.72	2.54	0.00

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Mental well-being	Age group (years)	Gender	Region	Model structure	Parameter	Coefficient	Standard error	P-values
Suicide risk	18–34	Female	Bangkok Metropolitan	(3, 1, 0)[1, 1, 0]	AR.L1	-0.93	0.23	0.00
					AR.L2	-0.73	0.26	0.00
					AR.L3	-0.66	0.18	0.00
					AR.S.L12	-0.84	0.08	0.00
					Sigma2	32.27	10.10	0.00
			Non-Bangkok Metropolitan	(0, 1, 1)[2, 1, 0]	MA.L1	-0.33	0.15	0.02
					AR.S.L12	-0.64	0.32	0.05
					AR.S.L24	-0.38	0.58	0.51
					Sigma2	57.96	31.71	0.07
		Male	Bangkok Metropolitan	(0, 1, 1)[2, 1, 0]	MA.L1	-0.66	0.13	0.00
					AR.S.L12	-1.20	0.20	0.00
					AR.S.L24	-0.62	0.19	0.00
					Sigma2	28.69	11.24	0.01
			Non-Bangkok Metropolitan	(3, 1, 1)[1, 1, 0]	AR.L1	-0.27	0.28	0.32
					AR.L2	-0.36	0.25	0.15
					AR.L3	-0.30	0.29	0.29
					MA.L1	-0.80	0.26	0.00
					AR.S.L12	-0.59	0.14	0.00
					Sigma2	24.67	6.36	0.00
	≥35	Female	Bangkok Metropolitan	(0, 1, 1)[0, 1, 1]	MA.L1	-0.46	0.16	0.00
					MA.S.L12	-0.46	0.30	0.12
					Sigma2	27.79	7.44	0.00
			Non-Bangkok Metropolitan	(0, 1, 1)[2, 1, 0]	MA.L1	-0.35	0.12	0.00
					AR.S.L12	-0.62	0.23	0.01
					AR.S.L24	-0.40	0.19	0.04
					Sigma2	11.51	3.21	0.00
		Male	Bangkok Metropolitan	(0, 1, 1)[0, 1, 0]	MA.L1	-0.90	0.36	0.01
					Sigma2	283.52	99.46	0.00
			Non-Bangkok Metropolitan	(0, 1, 0)[0, 1, 1]	MA.S.L12	-0.71	0.51	0.17
					Sigma2	2.71	1.43	0.06