

Supplementary materials

< Article Information >

Title: Effect of community attitudes on suicide mortality in South Korea: a nationwide ecological study

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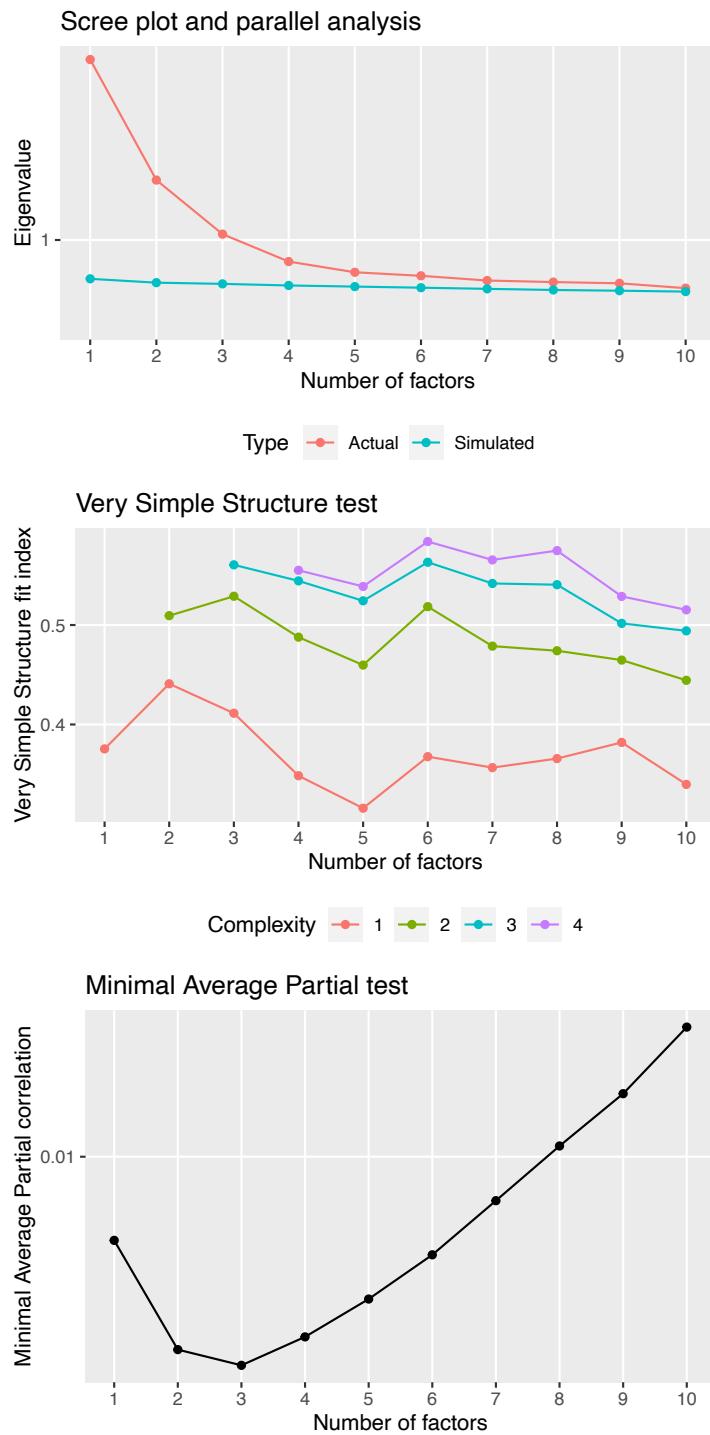
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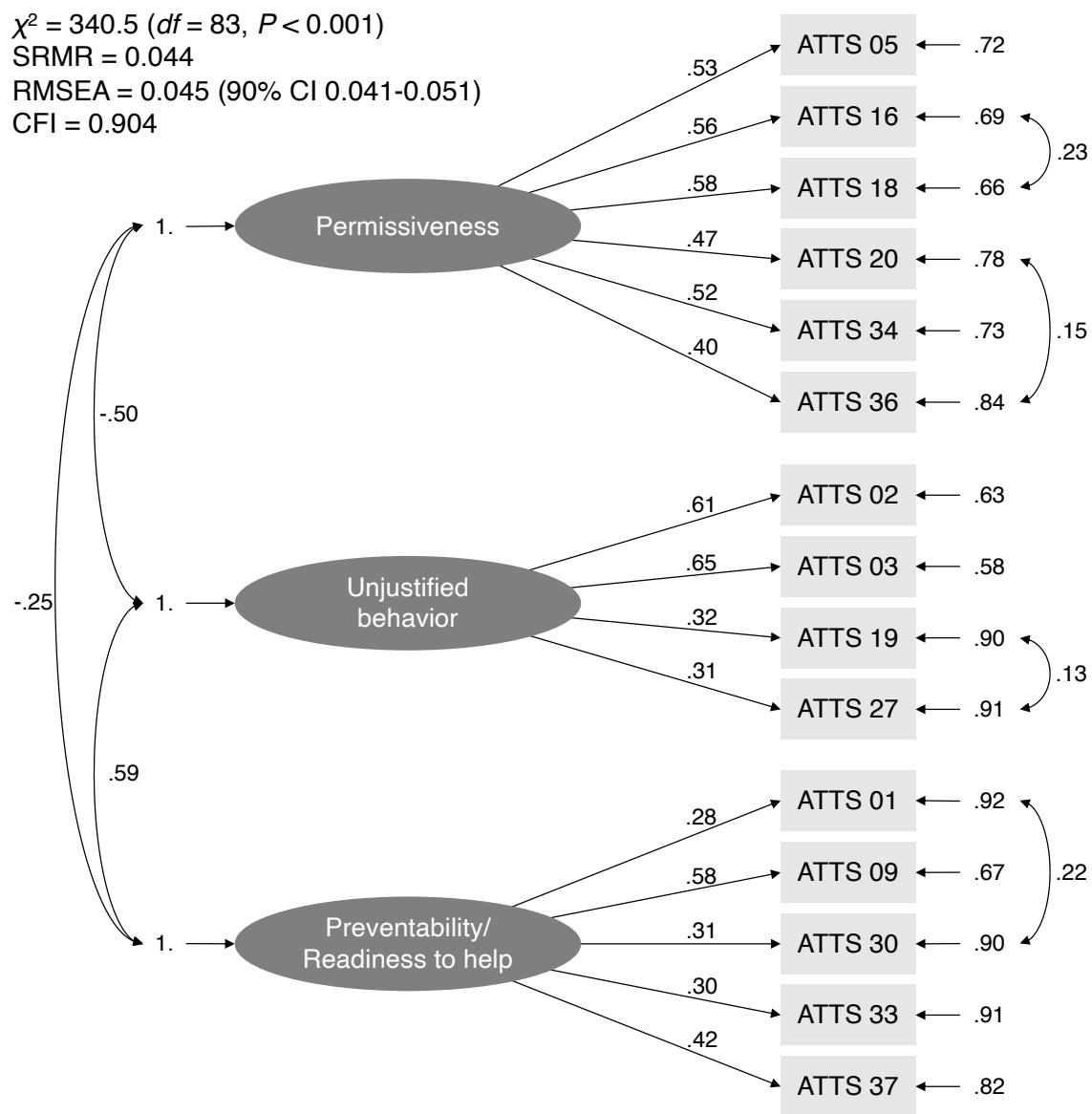
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Supplementary Fig. 1 Determination of the number of factors. The eigenvalue (top graph) decreased below 1 after three factors, while parallel analysis suggested more than 10 factors. The very simple structure test (middle graph) did not produce a single prominent peak, although values for two to three factors were comparatively higher. The minimal average partial correlation test (bottom graph) exhibited its lowest point at three factors. Based on these findings, it is reasonable to determine the number of factors as three.

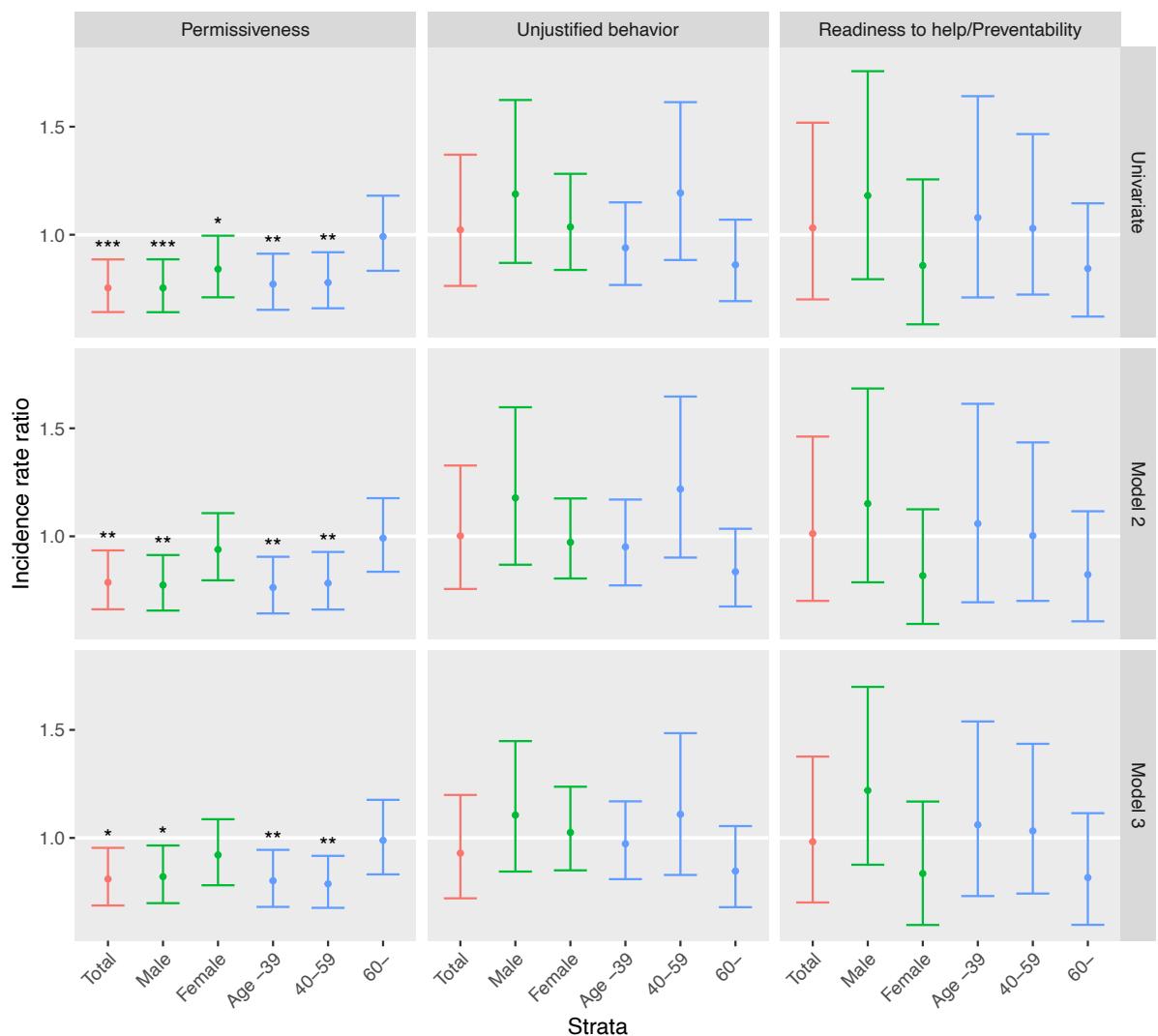
$\chi^2 = 340.5$ ($df = 83$, $P < 0.001$)
 SRMR = 0.044
 RMSEA = 0.045 (90% CI 0.041-0.051)
 CFI = 0.904



Supplementary Fig. 2 Path diagram of the confirmatory factor analysis. *df* degree of freedom, *SRMR* standardized root mean square residual, *RMSEA* root mean square error of approximation, *CFI* comparative fit index.

Region	Number of participants	Mean age	Older adults	Female	Suicide rate
Chungnam	60	46.1	19.5%	47.4%	36.7
Jeju	40	45.2	16.7%	48.5%	35.6
Gangwon	50	46.7	21.7%	48.3%	33.9
Gyeongbuk-South	40	44.0	18.5%	49.3%	33.9
Gyeongnam-East	50	43.5	19.9%	55.8%	33.6
Jeonbuk	60	45.7	21.7%	48.9%	33.6
Chungbuk	50	44.0	19.1%	48.1%	33.1
Gyeongnam-West	50	51.7	31.5%	39.1%	32.8
Incheon-South	41	45.4	15.6%	51.0%	32.0
Jeonnam	60	47.4	22.3%	48.0%	31.8
Gyeongbuk-North	40	52.0	31.8%	47.0%	31.8
Ulsan	40	44.0	15.2%	47.5%	31.7
Busan-West	60	47.9	23.0%	52.5%	31.5
Busan-East	40	50.5	30.7%	47.4%	31.0
Daejeon	50	43.9	15.9%	49.4%	30.8
Daegu	70	47.3	23.0%	50.0%	30.6
Incheon-North	40	43.3	18.3%	47.3%	29.6
Gyeonggi-Middle2	70	44.1	16.0%	50.5%	29.6
Gyeonggi-North	60	45.9	18.3%	47.8%	28.7
Gwangju	40	44.8	18.6%	49.9%	27.9
Gyeonggi-South2	49	43.9	14.8%	50.4%	26.6
Seoul-Northeast1	40	44.8	20.4%	50.4%	26.3
Sejong	30	44.7	16.7%	49.0%	26.2
Seoul-Northeast2	40	44.4	18.2%	50.6%	24.3
Gyeonggi-South2	70	43.5	12.8%	45.4%	23.9
Seoul-Southwest1	40	44.3	18.2%	50.6%	23.4
Seoul-Southwest2	40	43.3	16.0%	50.4%	23.0
Seoul-Southeast	60	43.8	16.8%	52.0%	22.9
Seoul-Northwest	50	45.0	18.2%	52.2%	22.3
Gyeonggi-Middle1	70	45.1	18.2%	49.7%	21.9

Supplementary Table 1. Regional demographic characteristics and suicide rates. Regions are displayed in descending order of suicide rate per 100,000 people.



Supplementary Fig. 3 Stratified analysis replicated in univariate and multivariate models. (Result of Model 1 can be found in Fig 2).