# Supplementary material 1. Sensitivity analysis for multivariatea association between perceived economic inequalities and income level and mental health

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|  | **Depressive symptoms** | **Suicide ideation** |
| Perceived income inequality(Scale: 0 = no, 10 = high) | 1.10(1.03,1.17) | 1.15(1.04,1.27) |
| Perceived inequality of intergenerational mobility(Scale: 0 = no, 10 = high) | 1.16(1.10,1.24) | 1.21(1.09,1.33) |
| Subjective income(Scale: 1: high -> 5: low) | 1.42(1.24,1.64) | 1.51(1.25,1.82) |
| Objective income(Scale: 1: high -> 5: low) | 1.00(0.91,1.10) | 1.25(1.11,1.41) |

a Adjusted for sex, age group, education, employment status, marital status, number of household members, region, subjective health, current smoking, and heavy drinking, along with the above variables

# Supplementary material 2. Multivariate association between perceived economic inequalities and mental health by objective and subjective income

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|  | **Depressive symptoms** | **Suicide ideation** |
|  | **OR (95% CI)** | **OR (95% CI)** |
| (a) Objective income |  |  |
| a-1. Perceived income inequalitya |  |  |
| Low inequality & high objective income | Reference | Reference |
| Low inequality & low objective income | 0.86(0.64,1.16) | 1.66(1.06,2.62) |
| High inequality & high objective income | 1.22(0.94,1.58) | 1.76(1.17,2.65) |
| High inequality & low objective income | 1.48(1.09,2.02) | 2.47(1.60,3.82) |
| *P for interaction* | 0.064 | 0.56 |
| a-2. Perceived inequality of intergenerational mobilityb |  |  |
| Low inequality & high objective income | Reference | Reference |
| Low inequality & low objective income | 0.92(0.66,1.27) | 1.29(0.80,2.09) |
| High inequality & high objective income | 1.68(1.29,2.19) | 1.66(1.09,2.55) |
| High inequality & low objective income | 1.86(1.37,2.54) | 2.71(1.68,4.37) |
| *P for interaction* | 0.31 | 0.42 |
| (b) Subjective income |  |  |
| b-1. Perceived income inequalityc |  |  |
| Low inequality & high subjective income | Reference | Reference |
| Low inequality & low subjective income | 1.75(1.33,2.30) | 1.41(0.93,2.16) |
| High inequality & high subjective income | 1.35(1.03,1.77) | 1.31(0.85,2.03) |
| High inequality & low subjective income | 2.54(1.97,3.28) | 2.90(1.98,4.26) |
| *P for interaction* | 0.70 | 0.12 |
| b-2. Perceived inequality of intergenerational mobilityd |  |  |
| Low inequality & high subjective income | Reference | Reference |
| Low inequality & low subjective income | 1.62(1.20,2.19) | 1.30(0.80,2.10) |
| High inequality & high subjective income | 1.68(1.29,2.18) | 1.48(0.95,2.30) |
| High inequality & low subjective income | 3.26(2.50,4.25) | 3.22(2.11,4.93) |
| *P for interaction* | 0.34 | 0.082 |

a Adjusted for subjective income, perceived inequality of intergenerational mobility, sex, age group, employment, marital status, number of household members, region, subjective health, current smoking, and high-risk drinking

b Adjusted for subjective income, perceived income inequality, sex, age group, employment, marital status, number of household members, region, subjective health, current smoking, and high-risk drinking

c Adjusted for objective income, perceived inequality of intergenerational mobility, sex, age group, employment, marital status, number of household members, region, subjective health, current smoking, and high-risk drinking

d Adjusted for objective income, perceived income inequality, sex, age group, employment, marital status, number of household members, region, subjective health, current smoking, and high-risk drinking