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| Supplementary Material 2. A subgroup analysis of the association between depression and multimorbidity |
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| Variable | Men | p\* | Women | p\* |
| Number of chronic conditions | Number of chronic conditions |
| 0 | 1 | 2+ | 0 | 1 | 2+ |
| OR | OR | 95% CI | OR | 95% CI | OR | OR | 95% CI | OR | 95% CI |
| Age |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | 65-69 | 1.00  | 1.58 | 1.20 | 2.10 | 2.56 | 1.95 | 3.36 | 0.0978 | 1.00 | 1.43 | 1.09 | 1.87 | 2.31 | 1.79 | 2.98 | 0.0088 |
|  | 70-74 | 1.00  | 1.34 | 1.05 | 1.72 | 2.14 | 1.69 | 2.71 |  | 1.00 | 1.54 | 1.19 | 2.01 | 2.13 | 1.67 | 2.71 |  |
|  | 75-79 | 1.00  | 1.18 | 0.91 | 1.53 | 2.20 | 1.72 | 2.82 |  | 1.00 | 0.94 | 0.71 | 1.24 | 1.56 | 1.22 | 2.01 |  |
|  | 80+ | 1.00  | 1.16 | 0.88 | 1.53 | 1.61 | 1.22 | 2.11 |  | 1.00 | 1.27 | 0.97 | 1.65 | 1.58 | 1.24 | 2.02 |  |
| Marital status |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Single, divorced, separated, widowed  | 1.00  | 1.10 | 0.79 | 1.53 | 2.02 | 1.48 | 2.76 | 0.4286 | 1.00  | 1.20 | 1.01 | 1.43 | 1.75 | 1.49 | 2.05 | 0.1381 |
|  | Married | 1.00  | 1.35 | 1.17 | 1.56 | 2.13 | 1.86 | 2.45 |  | 1.00  | 1.45 | 1.18 | 1.79 | 2.12 | 1.75 | 2.58 |  |
| Living arrangment |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | Living alone | 1.00  | 1.24 | 0.85 | 1.81 | 2.17 | 1.51 | 3.11 | 0.9572 | 1.00  | 1.23 | 0.98 | 1.53 | 1.70 | 1.39 | 2.08 | 0.1230 |
|  | Living with someone | 1.00  | 1.32 | 1.14 | 1.52 | 2.12 | 1.85 | 2.42 |  | 1.00  | 1.35 | 1.14 | 1.59 | 2.04 | 1.74 | 2.37 |  |
| Education |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | ≤ Primary school | 1.00  | 1.43 | 1.20 | 1.70 | 2.13 | 1.80 | 2.52 | 0.3627 | 1.00  | 1.28 | 1.11 | 1.48 | 1.85 | 1.62 | 2.12 | 0.7784 |
|  | Middle school | 1.00  | 1.14 | 0.83 | 1.57 | 2.03 | 1.50 | 2.75 |  | 1.00  | 1.53 | 0.96 | 2.45 | 2.12 | 1.37 | 3.27 |  |
|  | High school | 1.00  | 1.05 | 0.77 | 1.43 | 1.99 | 1.48 | 2.67 |  | 1.00  | 1.07 | 0.63 | 1.82 | 2.02 | 1.23 | 3.29 |  |
|  | ≥ College | 1.00  | 1.70 | 1.01 | 2.88 | 2.62 | 1.57 | 4.38 |  | 1.00  | 1.72 | 0.49 | 6.01 | 2.27 | 0.67 | 7.61 |  |
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| Supplementary Material 2. Continued |
| 　 |
| Variable | Men | p\* | Women | p\* |
| Number of chronic conditions | Number of chronic conditions |
| 0 | 1 | 2+ | 0 | 1 | 2+ |
| OR | OR | 95% CI | OR | 95% CI | OR | OR | 95% CI | OR | 95% CI |
| Type of insurance |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | National Health Insurance | 1.00  | 1.36 | 1.19 | 1.56 | 2.16 | 1.89 | 2.46 | 0.2310 | 1.00  | 1.35 | 1.18 | 1.56 | 1.97 | 1.73 | 2.24 | 0.0779 |
|  | Medical aid | 1.00  | 0.88 | 0.52 | 1.47 | 1.77 | 1.09 | 2.87 |  | 1.00  | 0.83 | 0.53 | 1.30 | 1.23 | 0.82 | 1.85 |  |
| Current smoking |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | No | 1.00  | 1.44 | 1.23 | 1.69 | 2.23 | 1.92 | 2.60 | 0.1271 | 1.00  | 1.32 | 1.15 | 1.51 | 1.90 | 1.68 | 2.16 | 0.4383 |
|  | Yes | 1.00  | 1.10 | 0.87 | 1.40 | 1.99 | 1.58 | 2.52 |  | 1.00  | 1.02 | 0.56 | 1.85 | 1.94 | 1.11 | 3.40 |  |
| Lack of exercise |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | No | 1.00  | 1.32 | 1.06 | 1.63 | 2.37 | 1.93 | 2.90 | 0.3022 | 1.00  | 1.34 | 1.05 | 1.70 | 2.05 | 1.63 | 2.57 | 0.8371 |
|  | Yes | 1.00  | 1.32 | 1.12 | 1.56 | 2.00 | 1.69 | 2.35 |  | 1.00  | 1.28 | 1.09 | 1.50 | 1.84 | 1.59 | 2.13 |  |
| High-risk alcohol drinking |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | No | 1.00  | 1.37 | 1.19 | 1.58 | 2.19 | 1.91 | 2.52 | 0.3567 | 1.00  | 1.30 | 1.14 | 1.48 | 1.90 | 1.68 | 2.15 | 0.8610 |
|  | Yes | 1.00  | 1.06 | 0.75 | 1.51 | 1.78 | 1.24 | 2.54 |  | 1.00  | 2.43 | 0.13 | 44.46 | 1.89 | 0.11 | 31.32 |  |
| Restriction on activities of daily living |  |  |  |  |  |  |  |  |  |  |  |  |
|  | No | 1.00  | 1.32 | 1.14 | 1.53 | 2.19 | 1.91 | 2.52 | 0.3559 | 1.00  | 1.33 | 1.14 | 1.54 | 1.93 | 1.68 | 2.23 | 0.6328 |
|  | Yes | 1.00  | 1.23 | 0.87 | 1.75 | 1.69 | 1.22 | 2.32 |  | 1.00  | 1.19 | 0.91 | 1.56 | 1.72 | 1.35 | 2.21 |  |
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| Supplementary Material 2. Continued |
| 　 |
| Variable | Men | p\* | Women | p\* |
| Number of chronic conditions | Number of chronic conditions |
| 0 | 1 | 2+ | 0 | 1 | 2+ |
| OR | OR | 95% CI | OR | 95% CI | OR | OR | 95% CI | OR | 95% CI |
| Frequency of contact with people |  |  |  |  |  |  |  |  |  |  |  |  |
|  | hardly ever | 1.00  | 16.56 |  -  |  -  |  -  |  -  |  -  | 0.7591 | 1.00  |  -  |  -  |  -  | 0.34 |  -  |  -  | 0.5222 |
|  | at least once | 1.00  | 1.32 | 1.15 | 1.50 | 2.13 | 1.87 | 2.42 |  | 1.00  | 1.30 | 1.14 | 1.49 | 1.90 | 1.68 | 2.15 |  |
| Other chronic conditions |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  | No | 1.00  | 1.63 | 1.32 | 2.02 | 2.66 | 2.16 | 3.28 | 0.0063 | 1.00  | 1.44 | 1.16 | 1.79 | 2.41 | 1.97 | 2.94 | 0.0007 |
|  | Yes | 1.00  | 1.12 | 0.94 | 1.33 | 1.82 | 1.55 | 2.14 |  | 1.00  | 1.17 | 0.99 | 1.39 | 1.61 | 1.38 | 1.89 |  |
| \*P was defined as interaction p-value.When frequency of contact was 'hardly ever', it was not estimated due to lack of frequency.Adjusted for age, marital status, living arrangement, education, type of insurance, current smoking, lack of exercise, high-risk alcohol drinking, restriction on activities of daily living, frequency of contact with people, other chronic conditions, and year.  |