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| Sensitivity analyses of self-assessed SES |
|  | TotalN=10,200n (%) | Response on RWDN= 9748 (95.6)n (%) | Non-RWDN=452 (4.4)n (%) | p |
| Self-assessed SES |  |  |  | <0.001c\* |
| Low (%) | 241 (2.4) | 233 (2.4) | 8 (1.8) |  |
| Medium (%) | 5574 (54.7) | 5411 (55.5) | 163 (36.1) |  |
| High (%) | 3633 (35.6) | 3529 (36.2) | 104 (23.0) |  |
| Missing (%) | 752 (7.4) | 575 (5.9) | 177 (39.2) |  |
| Sens. analyses self-assessed SES test 1 a |  |  |  | <0.001c\* |
| Low (%) | 816 (8.0) | 808 (8.3) | 8 (1.8) |  |
| Medium (%) | 5574 (54.7) | 5411 (55.5) | 163 (36.1) |  |
| High (%) | 3810 (37.4) | 3529 (36.2) | 281 (62.2) |  |
| Sens. analyses self-assessed SES test 2 b |  |  |  | <0.001c\* |
| Low (%) | 418 (4.1) | 233 (2.4) | 185 (40.9) |  |
| Medium (%) | 5574 (54.7) | 5411 (55.5) | 163 (36.1) |  |
| High (%) | 4208 (41.3) | 4104 (42.1) | 104 (23.0) |  |

a= Missing SES and response on RWD => low SES. Missing SES and non-response RWD => high SES, b= Missing SES and response on RWD => high SES. Missing SES and non-response RWD => low SES, c= chi2, \*statistical significant p<0.05

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| Model 3, adjusted logistic regression analyses of the association between RWD and low self-rated health using self-assessed SES test 1 and self-assessed SES test 2 |
|  | Model 3 | Model 3a | Model 3b |
|  | Adjusted N=7959 | AdjustedN=8361 | AdjustedN=8361 |
|  | OR | 95% CI | OR | 95% CI | OR | 95% CI |
| RWD |  |  |  |  |  |  |
| No | 1 |  | 1 |  | 1 |  |
| Yes | 1.37\* | 1.14-1.66 | 1.36\*\* | 1.15-1.61 | 1.38\*\* | 1.16-1.63 |
| Loneliness |  |  |  |  |  |  |
| Not lonely | 1 |  | 1 |  | 1 |  |
| Lonely | 1.51\*\* | 1.34-1.69 | 1.53\*\* | 1.36-1.73 | 1.52\*\* | 1.35-1.72 |
| Perceived stress | 1.11\*\* | 1.10-1.12 | 1.11\*\* | 1.10-1.12 | 1.11\*\* | 1.09-1.12 |
| Gender |  |  |  |  |  |  |
| Female | 1 |  | 1 |  | 1 |  |
| Male | 1.12 | 1.00-1.25 | 1.09 | 0.98-1.21 | 1.10 | 0.98-1.22 |
| Age | 1.17\* | 1.02-1.33 | 1.16\* | 1.02-1.31 | 1.16\* | 1.03-1.32 |
| Self-assessed SES |  |  |  |  |  |  |
| Low | 2.02\*\* | 1.44-2.83 | 1.57\*\* | 1.28-1.93 | 1.94\*\* | 1.40-2.68 |
| Medium | 1.61\*\* | 1.43-1.80 | 1.61\*\* | 1.44-1.80 | 1.54\*\* | 1.38-1.72 |
| High | 1 |  | 1 |  | 1 |  |
| Negative childhood events |  |  |  |  |  |  |
| 0 events | 1 |  | 1 |  | 1 |  |
| 1-3 events | 1.31\* | 1.08-1.59 | 1.28\* | 1.07-1.53 | 1.27\* | 1.06-1.52 |
| 4-7 events | 1.57\*\* | 1.26-1.97 | 1.58\*\* | 1.29-1.94 | 1.56\*\* | 1.27-1.91 |
| 8-11 events | 2.15\*\* | 1.49-3.09 | 2.05\*\* | 1.47-2.86 | 2.15\*\* | 1.54-3.00 |

a Using self-assessed SES test 1, b Using self-assessed SES test 2

\* p <0.05, \*\*p<0.001