|  |  |  |  |
| --- | --- | --- | --- |
| **Table S2**. Meta regression on the prevalence of loneliness and social isolation. |  |  |  |
|  | Loneliness | Social isolation |
| B (95% CI) | P | R2 | B (95% CI) | P | R2 |
| Mean age | 0.01 (-0.15, 0.18) | 0.89 | 0.00 | - | - | - |
| Males, % | 2.56 (-0.91, 6.03) | 0.15 | 0.11 | -5.54 (-7.59, -3.48) | **<0.01** | 0.25 |
| Sample size | -0.01 (-0.01, 0.02) | 0.83 | 0.00 | 0.001 (-0.005, 0.003) | 0.67 | 0.00 |
| Sample collection |  |  |  |  |  |  |
|  On site | 1.00 (Reference) |  | 0.00 | 1.00 (Reference) |  | 0.00 |
|  Online | -0.30 (-1.22, 0.62) | 0.52 |  | 0.01 (-1.13, 1.16) | 0.99 |  |
|  Telephone | -0.20 (-1.17, 0.77) | 0.69 |  | -0.56 (-1.70, 0.57) | 0.33 |  |
| Sampling methods |  |  |  |  |  |  |
|  Convenience sample | 1.00 (Reference) |  | 0.00 | 1.00 (Reference) |  | 0.00 |
|  Random sample | -0.51 (-1.34, 0.33) | 0.24 |  | -0.92 (-1.89, 0.04) | 0.06 |  |
| Study design |  |  |  |  |  |  |
|  Cohort study | 1.00 (Reference) |  | 0.00 | 1.00 (Reference) |  | 0.00 |
|  Cross-sectional study | -0.04 (-0.68, 0.61) | 0.92 |  | -0.25 (-1.38, 0.88) | 0.66 |  |
| Quality assessment item 1, population is defined | - | - | - | - | - | - |
| Quality assessment item 2, probability sampling  | -0.82 (-1.37, -0.27)  | **<0.01** | 0.33 | -0.92 (-1.89, 0.04) | 0.06 | 0.00 |
| Quality assessment item 3, response rate ≥80% | 0.22 (-0.39, 0.84) | 0.48 | 0.00 | 0.53 (-0.60, 1.66) | 0.36 | 0.00 |
| Quality assessment item 4, non-responders were described | 0.61 (-0.35, 1.56) | 0.22 | 0.00 | - | - | - |
| Quality assessment item 5, representativeness of target population | -0.80 (-1.52, -0.08) | **0.03** | 0.00 | -0.93 (-1.89, 0.04) | 0.06 | 0.00 |
| Quality assessment item 6, standardized data collection methods  | 1.30 (-1.24, 3.84) | 0.32 | 0.00 | - | - | - |
| Quality assessment item 7, valid and reliable study instrument | -0.55 (-1.18, 0.08) | 0.09 | 0.00 | - | - | - |
| Quality assessment item 8, detailed by subgroups  | 0.05 (-0.55, 0.65) | 0.87 | 0.00 |  -0.61 (-1.64, 0.43) | 0.25 | 0.00 |

Note: Quality assessment item 1: Target population is clearly defined; Quality assessment item 2: Probability sampling OR entire population surveyed; Quality assessment item 3: Is the response rate ≥80%?; Quality assessment item 4: Are non-responders clearly described?; Quality assessment item 5: Is the sample representative of the target population?; Quality assessment item 6: Were data collection methods standardized?; Quality assessment item 7: Were validated criteria used to define loneliness or social isolation?; Quality assessment item 8: Are the prevalence estimates given with confidence intervals and detailed by subgroups (if applicable)?

Overall estimate