**Table S1**. The quality assessment of the review studies using the Loney Quality Assessment Scale.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Author (Year)** | **1. Target population is clearly defined** | **2. Probability sampling OR entire population surveyed** | **3. Is the response rate ≥80%?** | **4. Are non-responders clearly described?** | **5. Is the sample representative of the target population?** | **6. Were data collection methods standardized?** | **7. Were validated criteria used to define loneliness or social isolation?** | **8. Are the prevalence estimates given with confidence intervals and detailed by subgroups**  **(if applicable)?** | **Total score** |
|
| Bailey et al. (2021) | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| Brandt et al. (2021) | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| Brown et al. (2021) | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 3 |
| Eliasen et al. (2021) | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| Emerson et al. (2020) | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 3 |
| GroarkeI et al. (2020) | 1 | 0 | 1 | 0 | 1 | 1 | 1 | 1 | 6 |
| Hansen et al. (2021) | 1 | 1 | 0 | 0 | 0 | 1 | 0 | 0 | 3 |
| Herron et al. (2021) | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| Horst et al. (2021) | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| Kim et al. (2021) | 1 | 0 | 0 | 0 | 0 | 0 | 1 | 1 | 3 |
| Koivunen et al. (2021) | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 4 |
| Kotwal et al. (2021) | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 4 |
| Koyama et al. (2021) | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 4 |
| Leese et al. (2021) | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 1 | 3 |
| Li et al. (2020) | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 5 |
| Lippke et al. (2021) | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 6 |
| Machon et al. (2021) | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 5 |
| Muller et al. (2020) | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 6 |
| Murayama et al. (2021) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 8 |
| Noguchi et al. (2021) | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 0 | 4 |
| Okely et al. (2020) | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| O’Shea et al. (2021) | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 7 |
| Savage et al. (2021) | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 1 | 4 |
| Sobrado et al. (2021) | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 5 |
| Sugaya et al. (2021) | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 4 |
| Torres et al. (2021) | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |
| Tutzer et al. (2021) | 1 | 1 | 0 | 0 | 1 | 1 | 1 | 0 | 4 |
| Walker et al. (2021) | 1 | 0 | 1 | 0 | 0 | 1 | 0 | 0 | 3 |
| Wang et al. (2021) | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 0 | 5 |
| Yildirim et al. (2021) | 1 | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 2 |