|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No. crt.** | **Reference** | **First author, year of publish** |  **Study type/****number of participants** | **Type of process** | **Assessment model** |
| **Frailty** | **Social isolation /loneliness** | **Frailty**  | **Loneliness**  |
| **Physical function** | **Cognition**  | **Nutrition /ponderal state** | **Comorbidities**  | **Marriage status /affective and/or sexual experiences** | **Social isolation** | **Loneliness**  |  |  |
| **1.**  | 1. | Gale et al, 2018 | Prospective study | x | x |  | x |  | x | x | Fried phenotype modelFrailty index | The UCLA Loneliness Scale |
| **2.** | 2. | Ozic et al, 2020 | Prospective interventional study410 participants | x | x | x | x | x | x | x | Tilburg Frailty IndicatorGroningen Activity Restriction Scale | Tilburg Frailty IndicatorGroningen Activity Restriction Scale |
| **3.**  | 3. | Hanlon et al, 2023 | Longitudinal cohort502 456 participants (UK Biobank) | x | x | x | x |  | x | x | Frailty phenotypeFrailty index | Self-reported questionnaires |
| **4.** | 7. | Wang et al, 2022 | Systematic Review | x | x | x | x |  |  | x | Fried phenotype modelFrailty index |  |
| **5.** | 9.  | Shi et al, 2020 | Prospective study7033 participants | x | x | x | x |  | x |  | Frailty indexMortality prediction indexes (Lee, Schonberg) |  |
| **6.** | 12. | Sha et al, 2022 | Prospective study | x | x | x | x |  | x | x | Physical Frailty Phenotype (PFP) scale | Single-question measurement of loneliness |
| **7.** | 13. | Sha et al, 2020 | Prospective study16 840 participants | x | x | x | x |  | x | x | FRAIL ScaleFrailty Index | Single-question measurement of loneliness |
| **8.** | 16. | Siriwardhana et al, 2018 | Systematic review and meta-analysis | x |  |  | x |  | x |  | Fried phenotype |  |
| **9.** | 20. | Zhao et al, 2021 | Cross-sectional study740 participants | x | x | x | x | x | x |  | FRAIL scale |  |
| **10.** | 23. | Zhang et al, 2023 | Longitudinal cohort study634 participants | x | x |  | x |  | x | x |  | De Jong Gierveld Loneliness ScaleLubben Social Network Scale-6 |
| **11.** | 25. | Ofori-Asenso et al, 2019 | Systematic review and meta-analysis | x | x | x | x |  |  |  | Fried phenotypeFrailty index |  |
| **12.** | 28. | Luo et al, 2023 | Longitudinal study9450 participants | x | x |  | x | x | x |  | Fried phenotype |  |
| **13.** | 29. | Damluji et al, 2021 | Prospective cohort study4656 participants | x | x | x | x | x | x |  | Fried phenotype |  |
| **14.** | 33. | Fakoya et al, 2020 | Scoping review | x | x |  | x | x | x | x |  | reported -as the primary outcome or-in the context of health outcomes  |
| **15.** | 34. | Apostolo et al, 2017 | Scoping review | x | x | x | x | x | x | x | Frailty indexVariants of Frailty index |  |
| **16.** | 35. | Apostolo et al, 2018 | Review  | x | x | x | x | x | x | x | Frailty indexVariants of Frailty index |  |
| **17.** | 39. | Souza Junior et al, 2021 | Sectional study662 participants | x | x | x | x | x | x | x | Self-reported Frailty instrument |  |
| **18.** | 40. | Santos-Orlandi et al, 2017 | Cross-sectional study40 participants | x | x | x | x | x |  |  | Fried phenotype | Geriatric Depression Scale |

**Table S1.** Summary of included studies