**Supplement**

**Supplementary Table 1. Reliability and internal validity of scales used in the study**

|  |  |  |  |
| --- | --- | --- | --- |
| **Symptoms** | **Scale** | **Cronbach alpha** | **Remarks** |
| Pain, eating difficulty | Items from the Mini-Suffering State Examination (MSSE) (Ng et al., 2007) | - | Cronbach alpha was not calculated because individual items were used to measure these symptoms |
| Appearance of discomfort, loss of spontaneous smile, signs of unhappiness | Items from the Quality of Life in Late-Stage Dementia (QUALID) (Hum et al., 2020) | - | Cronbach alpha was not calculated because individual items were used to measure these symptoms |
| Pathological impairment, cognitive impairment, functional deficits | Bedford Alzheimer Nursing Severity Scale (BANS-S) | 0.73 |  |
| Agitated behaviours | Cohen-Mansfield Agitation Inventory (Wong & Zelman, 2020) | 0.82 |  |
| **Caregiver outcomes** |  |  |  |
| Psychological distress | Hospital Anxiety and Depression Scale (Chan et al., 2018; Kang et al., 2020; Liang et al., 2016) | 0.92 |  |
| Burden | Caregiver Reaction Assessment Scale (Malhotra et al., 2012) | 0.90 |  |
| Impact on health and schedule | 0.88 |
| Impact on finance | 0.89 |
| Lack of family support | 0.89 |
| Anticipatory grief | Marwit Meuser Caregiver Grief Inventory-Short Form (Liew, 2016) | 0.91 |  |
| Satisfaction with care at the end-of-life in Dementia | SWC-EOLD (Tay et al., 2020) | 0.78 |  |
| Coping | Brief-COPE (Lim et al., 2011; Yuan et al., 2021) | 0.86 |  |
| Adaptive coping | 0.84 |
| Maladaptive coping | 0.79 |

**Supplementary Table 2. Criteria to assess model fit for latent class analysis**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **AIC** | **BIC** | **Percentage change in BIC** | **Entropy** |
| **2 class** | 5545.78 | 5640.15 |  | 0.96 |
| **3 class** | 5441.54 | 5583.11 | -1.01 | 0.95 |
| **4 class** | Convergence not achieved | | | |