# Appendix

Appendix A: Variable list

|  |  |  |
| --- | --- | --- |
| Variable  [Adapted from] | Measurement instrument | Rated by |
| Quality of life [31,32] | QUALIDEM (Quality of Life in Dementia instrument):  18 items in six subscales applicable for people with mild to very severe dementia (care relationship, positive affect, negative affect, restless tense behavior, social relations, social isolation). | Nursing staff and family members |
| Functional independence [26,33] | Physical Self-Maintenance Scale (PSMS): Aggregated score consisting of 5 items (toileting, feeding, dressing, grooming, physical ambulation, bathing). | Nursing staff |
| Number of challenging behaviors [34,35] | Neuropsychiatric Inventory (NPI): Aggregated prevalence of delusions, hallucinations, agitation, depression, anxiety, euphoria, apathy, disinhibition, irritability, and aberrant motor behavior. | Nursing staff |
| Nursing home suitability [36] | Aggregated score consisting of 5 items:  The nursing home facility/ward is spatially suited to fulfil the resident’s individual needs.  The nursing homes’ work processes are suited to fulfil the resident’s individual needs.  There is enough staff to respond to the resident’s individual needs during the week (e.g., helping with dressing).  There is enough staff to respond to the resident’s individual needs on weekends (e.g., helping with dressing).  There is enough staff to respond to the resident’s individual needs in the evening and night hours (e.g., providing something to drink or repositioning residents in bed). | Nursing staff and family members |

Appendix B: Resident characteristics for n=252 residents assessed by the nursing staff

|  |  |
| --- | --- |
| Variable | Sample (n=252), mean or % |
| Age | 83.6 (8.2) years |
| Female sex | 80% |
| Severity of the dementia disease | 12% mild  42% moderate  46% severe |
| Functional independencea | 40.9 (19.0) out of 100 |
| Number of challenging behaviorsb | 3.6 (2.7) out of 10 |
| Nursing home suitabilityc | 4.2 out of 5 (rated by the nursing staff) |

Standard deviation in parentheses  
a Scale ranges from 0 to 100, with 100 indicating complete functional independence  
b Scale ranges from 0 to 10  
c Scale ranges from 1 to 5, with 5 indicating the highest possible suitability  
Appendix B provides the descriptive statistics for (n=252) residents with dementia whose QoL was assessed by the nursing staff. The population of this sample was slightly older with proportionally more female residents, showed fewer challenging behaviors, and a higher share of residents with severe dementia. However, the differences were not substantial compared to the sample of residents in Table 1.

Appendix C: Factors influencing residents’ quality of life based on a regression for each QoL dimension for n=252 residents assessed by the nursing staff

|  |  |  |  |
| --- | --- | --- | --- |
|  | Care relationship | Positive affect | Negative affect |
| Functional  independence | 0.005\*\* | 0.010\*\*\* | 0.001 |
| Number of challenging behaviors | -0.109\*\*\* | -0.030 | -0.055\*\* |
| Nursing home  suitability | 0.040 | 0.105\* | 0.121\*\* |
| Age | 0.004 | -0.006 | -0.005 |
| Female sexa | -0.192 | 0.104 | -0.161 |
|  | Restless tense behavior | Social relations | Social isolation |
| Functional  independence | 0.008\*\* | 0.007\*\*\* | 0.002 |
| Number of challenging behaviors | -0.122\*\*\* | -0.017 | -0.155\*\*\* |
| Nursing home  suitability | 0.294\*\*\* | 0.071 | 0.108\* |
| Age | 0.015\* | 0.005 | 0.008 |
| Female sexa | -0.002 | -0.160 | -0.105 |

We report standardized beta coefficients for the effect of each independent variable on each QoL dimension

\*p≤.10, \*\*p<.05, \*\*\*p<.01

a dummy variable with 0= male; 1=female