Evidence Table 4. Health outcomes for people with dementia: cognitive decline, functional decline, and pain

| Author, Year Trial Name Funding Source | Cognitive Decline | Functional Decline | Pain |
| --- | --- | --- | --- |
| Dowling, 20051 NA Government | NR | NR | NR |
| Fritsch, 20092 NA Foundation or non-profit | General Alertness Subscale G1: 1512/1647  G2:1111/1245  G1 vs. G2: 1.028 times greater number of alertness events  p<0.05 | NR | NR |
| Hickman, 20073 NA Government | NR | NR | NR |
| Kovach, 20064 NA Government | NR | NR | Discomfort-DAT Baseline G1:162.91 G2:158.39,  End Point:  G1: 122.17 G2: 197.92  Within Group Mean Change  G1: 40.74 G2: -39.53 G1 vs. G2: 95% CI, 43.26 to 113.26 p<0.001  Effect size: 0.89 |
| Remington, 20026 NA Other | NR | NR | NR |
| Rosswurm, 19907 NA Other | MMSE Mean Gain Scores  G1: 1.33 G2: -0.33 t value = 1.36, NS | DBS Mean Gain Score G1: 0.33 G2: -0.33 t value = 0.32, NS | NR |

Evidence Table 4. Health outcomes for people with dementia: cognitive decline, functional decline, and pain (continued)

| Author, Year Trial Name Funding Source | Cognitive Decline | Functional Decline | Pain |
| --- | --- | --- | --- |
| Sloane, 20048 NA Government | NR | NR | Modified Discomfort -DAT Endpoint G1: 1.82  G2: 1.57 G3: 2.14  G1 vs. G2: p=0.001 G2 vs.G3: p<0.001  Change in Modified Discomfort-DAT G1: 0.29 G2: 0.54 G3: -0.02  G1 vs. G3 p<0.001  G2 vs. G3 p=0.001  G1 vs. G2:  p=0 .003 |

Evidence Table 4. Health outcomes for people with dementia: cognitive decline, functional decline, and pain (continued)

| Author, Year Trial Name Funding Source | Cognitive Decline | Functional Decline | Pain |
| --- | --- | --- | --- |
| Sloane, 20059 Collaborative Studies of Long-Term Care Government | MDS-COGS  Increase in cognitive impairment, Mean Change per 12 months Mild Dementia G1: 0.41 G2: 0.71 p=0.181  Moderate or Severe Dementia G1: -0.13 G2: 0.45 p=0.93  MDS-COGS Increase in cognitive impairment, Mean Change per 12 months G3: 0.33 G4: 0.30 G3 vs. G4 p=0.943 G5: 0.58 G6:: 0.61 G5 vs. G6: p=0.903 | MDS-ADL  Mean Change in ADL dependency per 12 months, MDS-ADL scale Mild Dementia G1: 4.29 G2: 5.80 p=0.059  Moderate or Severe Dementia G1: 0.87 G2: 1.13 p=0.807 MDS-ADL  Mean Change in ADL dependency per 12 months, MDS-ADL scale G3: 5.64 G4: 2.91 G3 vs. G4: p=0.029 G5: 3.00 G6: 3.19 G5 vs. G6: p=0.886 | Pain, not effectively treated during last month of life, % G1: 10.2 G2: 5.5 p=0.186  No Pain, never an issue during the last month of life, % G1: 48.5 G2: 38.7 p=0.249 |
| Sloane, 200810 Collaborative Studies of Long-Term Care Other | NR | NR | NR |

Evidence Table 4. Health outcomes for people with dementia: cognitive decline, functional decline, and pain (continued)

| Author, Year Trial Name Funding Source | Cognitive Decline | Functional Decline | Pain |
| --- | --- | --- | --- |
| Tappen, 199411 NA Foundation or non-profit | NR | Physical Self Maintenance Scale Within group mean change G1: -3.33 G2: -0.82 G3: +0.74 G1 vs. G2 and G3, p=0.04  Adjusted Endpoint Means G1: 26.17 G2: 24.10 G3: 22.63 G1 vs. G3, p=0.01 G2 vs. G1 or G3, p=NS  Performance Test of ADL Within group mean change G1: -3.01 G2: -0.86 G3: +1.14 p=0.12  Physical Self Maintenance Scale Goal Attainment Endpoint Mean G1: 1.75 G2: 1.43 G3: 1.10 G1 vs. G2 vs. G3, p=0.0023 G1 vs. G3, p=0.05 G2 vs. G1 or G3, p=NS | NR |

Evidence Table 4. Health outcomes for people with dementia: cognitive decline, functional decline, and pain (continued)

| Author, Year Trial Name Funding Source | Cognitive Decline | Functional Decline | Pain |
| --- | --- | --- | --- |
| Toseland, 199712 NA Government | NR | MOSES Self-care Subscale at baseline G1: 16.54 G2: 16.09 G3: 15.70  MOSES Self-care Subscale at endpoint G1: 16.52 G2: 16.68 G3: 16.77  MOSES Self-care Subscale change at endpoint G1: 0.02 G2: -0.59 G3: -1.07  MOSES Disorientation Subscale at Baseline G1: 15.68,  G2: 16.09 G3: 17.91  MOSES Disorientation Subscale at Endpoint G1: 17.90  G2: 17.43 G3: 17.09 | NR |
| Whall, 199713 NA Other | NR | NR | NR |
| Zimmerman, 200514 Dementia Care Project Foundation or non-profit | NR | NR | NR |

Abbreviations: ADL = Activities of Daily Living; DAT = Dementia of the Alzheimer’s Type; G = group; MDS-ADL = Minimum Data Set Activities of Daily Living Scale; MDS-COGS = Minimum Data Set Cognition Scale; MMSE = Mini-Mental State Examination; MOSES = Multidimensional Observation Scale for Elderly Subjects; NA = not applicable; NR = not reported; NS = not sufficient.