**Table S10. Covariates adjusted and unadjusted data sensitivity analysis. Categorical data results**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Clinical outcome** | **Sub-group**  **(number of studies)** | **Timepoint** | **Model adjustment** | **OR** | **95% CI** | **p-value** | **I²** (%) | **τ²** |
| Cognition | **Objective cognition measure** | | | | | | | |
| Cognitive performance (k=4) | Collapsed | Adjusted | 2.382 | 1.154–4.917 | 0.019 | 67.9 | 0.353 |
| Cognitive performance (k=3) | ≤6 months | Adjusted | 2.058 | 0.927–4.569 | 0.076 | 75.7 | 0.374 |
| Cognitive performance (k=3) | >6–12 months | Adjusted | 4.079 | 2.365–7.035 | <0.001 | 0.0 | 0.000 |
| Cognitive performance (k=2) | >12 months | Adjusted | 12.590 | 3.934–40.299 | <0.001 | 45.0 | 0.327 |
| Cognitive performance (k=6) | Collapsed | Unadjusted | 2.518 | 1.350–4.697 | 0.004 | 77.0 | 0.440 |
| Cognitive performance (k=2) | ≤6 months | Unadjusted | 1.277 | 0.578–2.820 | 0.545 | 0.0 | 0.000 |
| Cognitive performance (k=4) | >6–12 months | Unadjusted | 2.422 | 0.928–6.319 | 0.071 | 83.1 | 0.774 |
| Functional outcome | Functional change (k=6) | Collapsed | Adjusted | 2.312 | 1.706–3.133 | <0.001 | 0.0 | 0.000 |
| Functional change (k=4) | ≤6 months | Adjusted | 2.204 | 1.526–3.183 | <0.001 | 0.0 | 0.000 |
| Functional change (k=19) | Collapsed | Unadjusted | 1.942 | 1.608–2.346 | <0.001 | 30.6 | 0.048 |
| Functional change (k=14) | ≤6 months | Unadjusted | 1.811 | 1.448–2.266 | <0.001 | 36.9 | 0.061 |
| Functional change (k=4) | >6–12 months | Unadjusted | 2.805 | 2.024–3.886 | <0.001 | 0.0 | 0.000 |
| Functional change (k=2) | >12 months | Unadjusted | 1.558 | 0.590–4.115 | 0.371 | 0.0 | 0.000 |
| Functional performance (k=13) | Collapsed | Adjusted | 2.017 | 1.675–2.456 | <0.001 | 49.7 | 0.046 |
| Functional performance (k=8) | ≤6 months | Adjusted | 1.757 | 1.470–2.099 | <0.001 | 26.6 | 0.015 |
| Functional performance (k=5) | >6–12 months | Adjusted | 2.176 | 1.387–3.413 | 0.001 | 54.6 | 0.122 |
| Functional performance (k=3) | >12 months | Adjusted | 2.893 | 1.692–4.945 | <0.001 | 0.0 | 0.000 |
| Functional performance (k=15) | Collapsed | Unadjusted | 2.180 | 1.396–3.404 | 0.001 | 94.5 | 0.666 |
| Functional performance (k=8) | ≤6 months | Unadjusted | 1.362 | 0.823–2.254 | 0.230 | 91.3 | 0.420 |
| Functional performance (k=3) | >6–12 months | Unadjusted | 2.466 | 1.330–4.573 | 0.004 | 89.5 | 0.252 |
| Functional performance (k=3) | >12 months | Unadjusted | 4.270 | 1.293–14.099 | 0.017 | 91.8 | 1.690 |
| Quality of life | Poor quality of life (k=4) | Collapsed | Unadjusted | 2.131 | 1.693–2.682 | <0.001 | 0.0 | 0.000 |
| Poor quality of life (k=3) | ≤6 months | Unadjusted | 1.804 | 1.237–2.631 | 0.002 | 0.0 | 0.000 |
| Mental health | Poor mental health (k=8) | Collapsed | Adjusted | 1.775 | 1.283–2.458 | 0.001 | 81.9 | 0.159 |
| Poor mental health (k=5) | ≤6 months | Adjusted | 1.628 | 1.259–2.106 | <0.001 | 0.0 | 0.000 |
| Poor mental health (k=4) | >6–12 months | Adjusted | 1.495 | 1.052–2.124 | 0.025 | 76.0 | 0.086 |
| Poor mental health (k=6) | Collapsed | Unadjusted | 1.539 | 0.962–2.462 | 0.072 | 78.4 | 0.244 |
| Poor mental health (k=6) | ≤6 months | Unadjusted | 1.483 | 0.899–2.447 | 0.123 | 74.9 | 0.259 |
| Poor mental health (k=2) | >6–12 months | Unadjusted | 2.408 | 1.342–4.322 | 0.003 | 0.0 | 0.000 |
| Dementia | Dementia (k=14) | Collapsed | Adjusted | 5.595 | 3.551–8.815 | <0.001 | 56.8 | 0.383 |
| Dementia (k=3) | ≤6 months | Adjusted | 5.675 | 2.677–12.028 | <0.001 | 0.0 | 0.000 |
| Dementia (k=4) | >6–12 months | Adjusted | 3.959 | 1.461–10.728 | 0.007 | 71.1 | 0.686 |
| Dementia (k=7) | >12 months | Adjusted | 6.717 | 4.206–10.725 | <0.001 | 0.0 | 0.000 |
| Dementia (k=10) | Collapsed | Unadjusted | 4.903 | 2.066–11.634 | <0.001 | 94.0 | 1.654 |
| Dementia (k=3) | ≤6 months | Unadjusted | 5.373 | 0.810–35.655 | 0.082 | 61.2 | 1.685 |
| Dementia (k=5) | >6–12 months | Unadjusted | 4.090 | 1.428–11.716 | 0.009 | 82.8 | 0.998 |
| Dementia (k=5) | >12 months | Unadjusted | 3.572 | 1.047–12.185 | 0.042 | 94.7 | 1.741 |
| Institutionalisation | Institutionalisation (k=11) | Collapsed | Adjusted | 2.199 | 1.726–2.802 | <0.001 | 33.9 | 0.048 |
| Institutionalisation (k=6) | ≤6 months | Adjusted | 2.332 | 1.473–3.693 | <0.001 | 62.9 | 0.177 |
| Institutionalisation (k=5) | >6–12 months | Adjusted | 1.986 | 1.412–2.792 | <0.001 | 0.0 | 0.000 |
| Institutionalisation (k=18) | Collapsed | Unadjusted | 3.132 | 2.139–4.588 | <0.001 | 71.8 | 0.440 |
| Institutionalisation (k=9) | ≤6 months | Unadjusted | 2.903 | 1.427–5.906 | 0.003 | 78.0 | 0.845 |
| Institutionalisation (k=7) | >6–12 months | Unadjusted | 4.818 | 2.588–8.970 | <0.001 | 74.4 | 0.511 |
| Institutionalisation (k=5) | >12 months | Unadjusted | 2.559 | 1.383–4.736 | <0.003 | 62.4 | 0.226 |
| Readmission/revisit | Readmission/revisit (k=8) | Collapsed | Adjusted | 1.881 | 1.258–2.812 | 0.002 | 74.4 | 0.217 |
| Readmission/revisit (k=6) | ≤6 months | Adjusted | 1.992 | 1.220–3.254 | 0.006 | 74.6 | 0.278 |
| Readmission/revisit (k=2) | >6–12 months | Adjusted | 1.593 | 1.107–2.293 | 0.012 | 0.0 | 0.000 |
| Readmission/revisit (k=23) | Collapsed | Unadjusted | 1.626 | 1.309–2.020 | <0.001 | 57.7 | 0.125 |
| Readmission/revisit (k=22) | ≤6 months | Unadjusted | 1.649 | 1.303–2.087 | <0.001 | 57.9 | 0.148 |
| Readmission/revisit (k=2) | >6–12 months | Unadjusted | 1.623 | 1.226–2.150 | 0.001 | 0.0 | 0.000 |
| Mortality | Mortality (k=32) | Collapsed | Adjusted | 2.230 | 1.826–2.725 | <0.001 | 60.9 | 0.174 |
| Mortality (k=21) | ≤6 months | Adjusted | 2.670 | 2.230–3.196 | <0.001 | 18.1 | 0.031 |
| Mortality (k=9) | >6–12 months | Adjusted | 1.964 | 1.549–2.491 | <0.001 | 0.0 | 0.000 |
| Mortality (k=6) | >12 months | Adjusted | 1.270 | 0.733–1.203 | 0.394 | 73.3 | 0.289 |
| Mortality (k=138) | Collapsed | Unadjusted | 2.626 | 2.392–2.883 | <0.001 | 84.0 | 0.193 |
| Mortality (k=83) | ≤6 months | Unadjusted | 2.999 | 2.620–3.434 | <0.001 | 77.2 | 0.206 |
| Mortality (k=66) | >6–12 months | Unadjusted | 2.431 | 2.139–2.762 | <0.001 | 76.5 | 0.172 |
|  | Mortality (k=37) | >12 months | Unadjusted | 2.167 | 1.780–2.636 | <0.001 | 85.1 | 0.251 |

Footnote: Data not presented when less than 2 studies available. Cognitive change categorical: all unadjusted results

**Table S11. Covariates adjusted and unadjusted data sensitivity analysis. Continuous data results**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Clinical outcome** | **Sub-group**  **(number of studies)** | **Timepoint** | **Model adjustment** | **Hedges's g** | **95% CI** | **p-value** | **I²** (%) | **τ²** |
| Cognition | **Objective cognition measure** | | | | | | | |
| Cognitive change (k=6) | Collapsed | Adjusted | -0.158 | -0.242– -0.075 | <0.001 | 61.2 | 0.006 |
| Cognitive change (k=6) | ≤6 months | Adjusted | -0.115 | -0.223– -0.008 | 0.035 | 57.9 | 0.010 |
| Cognitive change (k=3) | >6–12 months | Adjusted | -0.095 | -0.350– 0.159 | 0.463 | 81.1 | 0.041 |
| Cognitive change (k=3) | >12 months | Adjusted | -0.243 | -0.312– -0.174 | <0.001 | 0.0 | 0.000 |
| Cognitive change (k=7) | Collapsed | Unadjusted | -0.265 | -0.497– -0.033 | 0.025 | 80.8 | 0.076 |
| Cognitive change (k=3) | ≤6 months | Unadjusted | -0.345 | -0.547– -0.143 | 0.001 | 0.0 | 0.000 |
| Cognitive change (k=2) | >6–12 months | Unadjusted | 0.065 | -0.245– 0.376 | 0.680 | 25.1 | 0.013 |
| Cognitive performance (k=14) | Collapsed | Adjusted | -0.452 | -0.622– -0.283 | <0.001 | 95.1 | 0.086 |
| Cognitive performance (k=13) | ≤6 months | Adjusted | -0.422 | -0.619– -0.225 | <0.001 | 92.3 | 0.105 |
| Cognitive performance (k=8) | >6–12 months | Adjusted | -0.462 | -0.728– -0.196 | 0.001 | 91.8 | 0.128 |
| Cognitive performance (k=4) | >12 months | Adjusted | -0.519 | -0.875– -0.162 | 0.004 | 97.0 | 0.117 |
| Cognitive performance (k=24) | Collapsed | Unadjusted | -0.800 | -1.007–0.593 | <0.001 | 92.9 | 0.238 |
| Cognitive performance (k=16) | ≤6 months | Unadjusted | -0.832 | -1.052– -0.613 | <0.001 | 87.5 | 0.161 |
| Cognitive performance (k=9) | >6–12 months | Unadjusted | -0.747 | -1.021– -0.473 | <0.001 | 79.8 | 0.130 |
| Cognitive performance (k=6) | >12 months | Unadjusted | -0.957 | -1.702– -0.212 | 0.012 | 97.2 | 0.830 |
| **Subjective cognition measure** | | | | | | | |
| Cognitive performance (k=2) | Collapsed | Adjusted | -0.174 | -0.325–0.022 | 0.025 | 0.0 | 0.000 |
| Cognitive performance (k=5) | Collapsed | Unadjusted | -0.207 | -0.405– -0.009 | 0.040 | 80.7 | 0.038 |
| Cognitive performance (k=4) | ≤6 months | Unadjusted | -0.283 | -0.438– -0.127 | <0.001 | 47.9 | 0.012 |
| Functional outcome | Functional change (k=5) | Collapsed | Adjusted | -0.206 | -0.384– -0.028 | 0.024 | 66.7 | 0.026 |
| Functional change (k=5) | ≤6 months | Adjusted | -0.223 | -0.423– -0.023 | 0.029 | 70.6 | 0.035 |
| Functional change (k=5) | Collapsed | Unadjusted | -0.798 | -1.539– -0.056 | 0.035 | 92.8 | 0.650 |
| Functional change (k=2) | ≤6 months | Unadjusted | -1.202 | -3.482–1.079 | 0.302 | 97.7 | 2.645 |
| Functional change (k=2) | >12 months | Unadjusted | -0.279 | -0.887–0.329 | 0.368 | 76.7 | 0.149 |
| Functional performance (k=10) | Collapsed | Adjusted | -0.590 | -0.930– -0.249 | 0.001 | 97.7 | 0.281 |
| Functional performance (k=7) | ≤6 months | Adjusted | -0.715 | -1.251– -0.179 | 0.009 | 98.4 | 0.511 |
| Functional performance (k=5) | >6–12 months | Adjusted | -0.289 | -0.543– -0.034 | 0.026 | 77.3 | 0.058 |
| Functional performance (k=3) | >12 months | Adjusted | -0.206 | -0.301– -0.111 | <0.001 | 0.5 | 0.000 |
| Functional performance (k=28) | Collapsed | Unadjusted | -0.604 | -0.867– -0.342 | <0.001 | 97.5 | 0.477 |
| Functional performance (k=23) | ≤6 months | Unadjusted | -0.574 | -0.878– -0.271 | <0.001 | 97.3 | 0.527 |
| Functional performance (k=8) | >6–12 months | Unadjusted | -0.737 | -1.177– -0.297 | 0.001 | 96.6 | 0.378 |
| Functional performance (k=5) | >12 months | Unadjusted | -0.726 | -1.307– -0.145 | 0.014 | 93.7 | 0.397 |
| Quality of life | Poor quality of life (k=7) | Collapsed | Adjusted | -0.315 | -0.464– -0.166 | <0.001 | 85.1 | 0.031 |
| Poor quality of life (k=4) | ≤6 months | Adjusted | -0.422 | -0.823– -0.021 | 0.039 | 92.2 | 0.150 |
| Poor quality of life (k=4) | >6–12 months | Adjusted | -0.211 | -0.310– -0.111 | <0.001 | 0.0 | 0.000 |
| Poor quality of life (k=15) | Collapsed | Unadjusted | -0.509 | -0.681– -0.338 | <0.001 | 95.0 | 0.097 |
| Poor quality of life (k=10) | ≤6 months | Unadjusted | -0.306 | -0.454– -0.158 | <0.001 | 88.3 | 0.043 |
| Poor quality of life (k=4) | >6–12 months | Unadjusted | -0.583 | -0.874– -0.293 | <0.001 | 91.4 | 0.072 |
| Mental health | Poor mental health (k=2) | Collapsed | Adjusted | -0.281 | -0.747– 0.184 | 0.236 | 71.0 | 0.082 |
| Poor mental health (k=2) | ≤6 months | Adjusted | -0.310 | -0.681– -0.061 | 0.101 | 10.0 | 0.009 |
| Poor mental health (k=9) | Collapsed | Unadjusted | -0.336 | -0.514– -0.157 | <0.001 | 78.0 | 0.052 |
| Poor mental health (k=8) | ≤6 months | Unadjusted | -0.321 | -0.523– -0.119 | 0.002 | 76.6 | 0.057 |
| Poor mental health (k=4) | >6–12 months | Unadjusted | -0.478 | -0.698– -0.257 | <0.001 | 1.0 | 0.001 |

**Footnote**: Data not presented when less than 2 studies available. Subjective cognitive measure cognitive change categorical and continuous data not available (study not available).

Subjective cognitive measure cognitive performance categorical: all studies were adjusted except one study