**Table S7. Follow-up time analysis for clinical outcomes after delirium: Categorical data results**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Clinical outcome** | **Sub-group**  **(number of studies)** | **Timepoint** | **OR** | **95% CI** | **p-value** | **I²** (%) | **τ²** |
| Cognition | **Objective cognition measure** | | | | | | |
| Cognitive change (k=7) | Collapsed | 1.575 | 1.227–2.022 | <0.001 | 23.0 | 0.024 |
| Cognitive change (k=7) | ≤6 months | 1.551 | 1.232–1.953 | <0.001 | 11.9 | 0.013 |
| Cognitive performance (k=10) | Collapsed | 2.473 | 1.575–3.883 | <0.001 | 72.2 | 0.355 |
| Cognitive performance (k=5) | ≤6 months | 1.789 | 1.028–3.114 | 0.040 | 56.4 | 0.216 |
| Cognitive performance (k=6) | >6–12 months | 3.050 | 1.558–5.974 | 0.001 | 75.4 | 0.512 |
| Cognitive performance (k=3) | >12 months | 7.395 | 2.303–23.748 | 0.001 | 77.6 | 0.803 |
| **Subjective cognition measure** | | | | | | |
| Cognitive performance (k=5) | Collapsed | 2.107 | 1.031–4.306 | 0.041 | 86.6 | 0.537 |
| Cognitive performance (k=2) | ≤6 months | 2.017 | 1.089–3.735 | 0.026 | 1.8 | 0.004 |
| Cognitive performance (k=2) | >6–12 months | 1.865 | 1.138–3.057 | 0.013 | 64.2 | 0.082 |
| Functional outcome | Functional change (k=23) | Collapsed | 2.038 | 1.742–2.384 | <0.001 | 20.1 | 0.028 |
| Functional change (k=17) | ≤6 months | 1.894 | 1.564–2.293 | <0.001 | 28.0 | 0.042 |
| Functional change (k=5) | >6–12 months | 2.734 | 2.015–3.709 | <0.001 | 0.0 | 0.000 |
| Functional change (k=2) | >12 months | 1.558 | 0.590–4.115 | 0.371 | 0.0 | 0.000 |
| Functional performance (k=27) | Collapsed | 2.187 | 1.687–2.836 | <0.001 | 90.8 | 0.363 |
| Functional performance (k=16) | ≤6 months | 1.560 | 1.175–2.070 | 0.002 | 86.5 | 0.227 |
| Functional performance (k=8) | >6–12 months | 2.318 | 1.674–3.210 | <0.001 | 75.0 | 0.127 |
| Functional performance (k=7) | >12 months | 4.077 | 1.680–9.894 | 0.002 | 89.3 | 1.250 |
| Frailty(k=4) | Collapsed | 2.547 | 0.862–7.528 | 0.091 | 93.4 | 1.078 |
| Falls (k=2) | Collapsed | 0.692 | 0.343–1.397 | 0.305 | 0.0 | 0.000 |
| Quality of life | Quality of life (k=4) | Collapsed | 2.131 | 1.693– 2.682 | < 0.001 | 0.0 | 0.00 |
| Quality of life (k=3) | ≤6 months | 1.804 | 1.237– 2.631 | 0.002 | 0.0 | 0.00 |
| Mental health | Mental health (k=14) | Collapsed | 1.687 | 1.308–2.175 | < 0.001 | 79.7 | 0.161 |
| Sleep related problems (k=3) | Collapsed | 2.724 | 1.105– 6.176 | 0.030 | 69.7 | 0.442 |
| Depression/ depressive disorders (k=10) | Collapsed | 1.656 | 1.246–2.200 | < 0.001 | 65.5 | 0.107 |
| Anxiety/anxiety disorders (k=6) | Collapsed | 1.600 | 1.211–2.114 | 0.001 | 41.8 | 0.041 |
| Post-traumatic stress/post-traumatic stress disorder (PTSD) (k=7) | Collapsed | 1.406 | 1.085–1.823 | 0.010 | 30.4 | 0.036 |
| Mental health (k=11) | ≤6 months | 1.572 | 1.202–2.057 | 0.001 | 54.8 | 0.100 |
| Mental health (k=6) | >6–12 months | 1.663 | 1.189–2.327 | 0.003 | 72.4 | 0.104 |
| Mental health (k=2) | >12 months | 4.574 | 2.851–7.340 | 0.001 | 0.0 | 0.00 |
| Dementia | Dementia (k=23) | Collapsed | 5.373 | 3.307–8.732 | < 0.001 | 88.2 | 1.112 |
| Dementia (k=6) | ≤6 months | 5.603 | 2.716–11.557 | < 0.001 | 20.6 | 0.169 |
| Dementia (k=9) | >6–12 months | 4.089 | 1.926–8.681 | < 0.001 | 84.1 | 0.926 |
| Dementia (k=12) | >12 months | 5.189 | 2.437–11.050 | < 0.001 | 89.8 | 1.463 |
| Institutionalisation | Institutionalisation (k=29) | Collapsed | 2.801 | 2.144–3.659 | <0.001 | 74.9 | 0.335 |
| Institutionalisation (k=15) | ≤6 months | 2.729 | 1.814–4.105 | <0.001 | 75.5 | 0.403 |
| Institutionalisation (k=12) | >6–12 months | 3.262 | 2.058–5.171 | <0.001 | 74.1 | 0.474 |
| Institutionalisation (k=5) | >12 months | 2.570 | 1.612–4.097 | < 0.001 | 50.7 | 0.135 |
| Readmission/revisit | Readmission/revisit (k=31) | Collapsed | 1.699 | 1.395–2.070 | < 0.001 | 66.4 | 0.163 |
| Readmission/revisit (k=29) | ≤6 months | 1.734 | 1.387–2.168 | < 0.001 | 67.3 | 0.203 |
| Readmission/revisit (k=4) | >6–12 months | 1.612 | 1.291–2.014 | < 0.001 | 0.0 | 0.000 |
| Mortality | Mortality (k=165) | Collapsed | 2.548 | 2.339–2.776 | < 0.001 | 82.4 | 0.190 |
| Mortality (k=103) | ≤6 months | 2.934 | 2.609–3.299 | < 0.001 | 73.4 | 0.186 |
| Mortality (k=75) | >6–12 months | 2.384 | 2.117–2.685 | < 0.001 | 73.9 | 0.161 |
| Mortality (k=42) | >12 months | 2.022 | 1.675–2.441 | < 0.001 | 84.9 | 0.260 |

Footnote: Categorical data cognitive change is cognitive decline vs no cognitive decline results. Categorical data functional change is functional decline vs no functional decline results.

Categorical data cognitive performance is cognitive impairment vs no cognitive impairment results. Categorical data functional performance is functional impairment vs no functional impairment results

Data presented < 6 months, >6–12 months and > 12 months when available for 2 or more studies.

**Table S8. Follow-up time analysis for clinical outcomes after delirium. Continuous data results**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Clinical outcome** | **Sub-group**  **(number of studies)** | **Timepoint** | **Hedges's g** | **95% CI** | **p-value** | **I²** (%) | **τ²** |
| Cognition | **Objective cognitive measure** | | | | | | |
| Cognitive change (k=13) | Collapsed | -0.192 | -0.285– -0.099 | <0.001 | 73.1 | 0.017 |
| Cognitive change (k=9) | ≤6 months | -0.158 | -0.258– -0.058 | 0.002 | 52.5 | 0.011 |
| Cognitive change (k=5) | >6–12 months | -0.052 | -0.254– 0.150 | 0.613 | 71.0 | 0.035 |
| Cognitive change (k=4) | >12 months | -0.154 | -0.302– -0.006 | 0.042 | 73.5 | 0.015 |
| Cognitive performance (k=36) | Collapsed | -0.689 | -0.822– -0.555 | <0.001 | 94.7 | 0.141 |
| Cognitive performance (k=28) | ≤6 months | -0.657 | -0.810– -0.505 | <0.001 | 91.5 | 0.136 |
| Cognitive performance (k=17) | >6–12 months | -0.601 | -0.790– -0.411 | <0.001 | 88.2 | 0.127 |
| Cognitive performance (k=10) | >12 months | -0.782 | -1.104– -0.460 | <0.001 | 96.9 | 0.242 |
| **Subjective cognitive measure** | | | | | | |
| Cognitive performance (k=7) | Collapsed | -0.191 | -0.336– -0.046 | 0.010 | 72.6 | 0.025 |
| Cognitive performance (k=5) | ≤6 months | -0.254 | -0.405– -0.103 | 0.001 | 48.2 | 0.014 |
| Functional outcome | Functional change (k=10) | Collapsed | -0.432 | -0.694– -0.170 | 0.001 | 87.3 | 0.143 |
| Functional change (k=7) | ≤6 months | -0.433 | -0.764– -0.102 | 0.010 | 90.3 | 0.172 |
| Functional change (k=2) | >12 months | -0.279 | -0.887– 0.329 | 0.368 | 76.7 | 0.149 |
| Functional performance (k=37) | Collapsed | -0.616 | -0.827– -0.405 | <0.001 | 97.7 | 0.404 |
| Functional performance (k=30) | ≤6 months | -0.608 | -0.866– -0.349 | <0.001 | 97.6 | 0.502 |
| Functional performance (k=13) | >6–12 months | -0.581 | -0.892– -0.270 | <0.001 | 95.6 | 0.297 |
| Functional performance (k=7) | >12 months | -0.544 | -0.851– -0.237 | 0.001 | 92.2 | 0.144 |
| Quality of life | Quality of life (k=22) | Collapsed | -0.443 | -0.563– -0.323 | <0.001 | 93.6 | 0.068 |
| Quality of life (k=14) | ≤6 months | -0.331 | -0.465– -0.196 | <0.001 | 88.8 | 0.051 |
| Quality of life (k=8) | >6–12 months | -0.419 | -0.613– -0.225 | <0.001 | 89.5 | 0.062 |
| Quality of life (k=2) | >12 months | -0.448 | -0.905– 0.008 | 0.054 | 87.5 | 0.096 |
| Quality of life: physical (k=5) | Collapsed | -0.242 | -0.367– -0.117 | <0.001 | 48.5 | 0.010 |
| Quality of life: mental (k=5) | Collapsed | -0.191 | -0.266– -0.115 | <0.001 | 0.0 | 0.00 |
| Quality of life: role physical (k=5) | Collapsed | -0.351 | -0.629– -0.073 | 0.013 | 79.6 | 0.068 |
| Quality of life: physical functioning (k=8) | Collapsed | -0.619 | -0.934– -0.304 | <0.001 | 87.7 | 0.159 |
| Quality of life: vitality (k=6) | Collapsed | -0.231 | -0.424– -0.037 | 0.020 | 65.4 | 0.034 |
| Quality of life: social functioning (k=9) | Collapsed | -0.588 | -0.888– -0.289 | <0.001 | 87.6 | 0.163 |
| Quality of life: general health (k=7) | Collapsed | -0.332 | -0.619– -0.045 | 0.023 | 84.0 | 0.110 |
| Quality of life: role emotional (k=6) | Collapsed | -0.129 | -0.275– 0.017 | 0.084 | 39.4 | 0.012 |
| Quality of life: bodily pain (k=5) | Collapsed | -0.048 | -0.182– 0.087 | 0.488 | 33.6 | 0.008 |
| Quality of life: mental health (k=6) | Collapsed | -0.178 | -0.428– 0.072 | 0.162 | 70.1 | 0.062 |
| Mental health | Mental health (k=11) | Collapsed | -0.328 | -0.488– -0.168 | <0.001 | 76.1 | 0.050 |
| Depression/depressive disorders (k=9) | Collapsed | -0.354 | -0.576– -0.133 | 0.002 | 70.7 | 0.072 |
| Anxiety/ anxiety disorders (k=5) | Collapsed | -0.270 | -0.520– -0.021 | 0.034 | 61.9 | 0.047 |
| Post-traumatic stress/post-traumatic stress disorder (PTSD) (k=4) | Collapsed | -0.135 | -0.289– -0.018 | 0.084 | 6.4 | 0.002 |
| Other mental/behavioural symptoms (k=3) | Collapsed | -0.317 | -0.519– -0.115 | 0.002 | 0.0 | 0.00 |
| Mental health (k=10) | ≤6 months | -0.313 | 0.493– -0.133 | 0.001 | 71.8 | 0.052 |
| Mental health (k=5) | >6–12 months | -0.411 | -0.650– -0.173 | 0.001 | 24.1 | 0.018 |
| Mental health (k=2) | >12 months | -0.460 | -0.726– -0.194 | 0.001 | 0.0 | 0.000 |

Footnote: Continuous data cognitive change is a change from the baseline results. Continuous data functional change is a change from the baseline results

Continuous data cognitive performance is a score at follow-up results. Continuous data functional performance is a score at follow-up results

Data presented < 6 months, >6–12 months and > 12 months when available for 2 or more studies.