**For R figure**

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

| **Clinical outcome** | **Sub-group**  **(number of studies)** | **Timepoint** | **OR** | **95% CI** | **p-value** | **I²** (%) | **τ²** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Cognition | Cognitive impairment (n=20) | Collapsed | 2.168 | 1.685-2.789 | < 0.001 | 76.2 | 0.203 |
| Cognitive impairment (n=11) | ≤6 months | 1.652 | 1.322-2.063 | < 0.001 | 29.5 | 0.037 |
| Cognitive impairment (n=8) | 6-12 months | 2.287 | 1.481-3.532 | <0.001 | 77.1 | 0.280 |
| Cognitive impairment (n=6) | >12 months | 4.685 | 2.391-9.177 | < 0.001 | 87.8 | 0.562 |
| Cognitive decline (n=5) | Collapsed | 1.656 | 1.062-2.585 | 0.026 | 28.8 | 0.077 |
| Cognitive decline (n=4) | ≤6 months | 1.527 | 0.907-2.570 | 0.111 | 40.6 | 0.114 |
| Cognitive decline (n=2) | >12 months | 2.220 | 1.287-3.828 | 0.004 | 0.0 | 0.000 |
| Functional outcome | Functional impairment (n=27) | Collapsed | 2.186 | 1.684-2.837 | < 0.001 | 90.8 | 0.363 |
| Functional impairment (n=16) | ≤6 months | 1.571 | 1.193-2.070 | 0.001 | 86.6 | 0.222 |
| Functional impairment (n=7) | 6-12 months | 2.355 | 1.644-3.373 | < 0.001 | 78.5 | 0.142 |
| Functional impairment (n=7) | >12 months | 4.097 | 1.622 to 10.352 | 0.003 | 88.9 | 1.330 |
| Functional decline (n=22) | Collapsed | 2.050 | 1.759-2.389 | < 0.001 | 19.9 | 0.025 |
| Functional decline (n=16) | ≤6 months | 1.904 | 1.551-2.338 | < 0.001 | 32.3 | 0.052 |
| Functional decline (n=6) | 6-12 months | 2.611 | 1.975-3.451 | < 0.001 | 0.0 | 0.000 |
| Functional decline (n=2) | >12 months | 1.945 | 0.967-3.912 | 0.062 | 0.0 | 0.000 |
| Quality of life | Poor quality of life (n=4) | Collapsed | 2.131 | 1.693 to 2.682 | < 0.001 | 0.0 | 0.00 |
| Poor quality of life (n=3) | ≤6 months | 1.804 | 1.237 to 2.631 | 0.002 | 0.0 | 0.00 |
| Mental health | Mental health problems (n=14) | Collapsed | 1.687 | 1.308-2.175 | < 0.001 | 79.7 | 0.161 |
| Mental health problems (n=11) | ≤6 months | 1.572 | 1.202-2.057 | 0.001 | 54.8 | 0.100 |
| Mental health problems (n=6) | 6-12 months | 1.663 | 1.189-2.327 | 0.003 | 72.4 | 0.104 |
| Mental health problems (n=2) | >12 months | 4.574 | 2.851-7.340 | 0.001 | 0.0 | 0.00 |
| Dementia | Dementia (n=23) | Collapsed | 5.373 | 3.307–8.732 | < 0.001 | 88.2 | 1.112 |
| Dementia (n=6) | ≤6 months | 5.603 | 2.716-11.557 | < 0.001 | 20.6 | 0.169 |
| Dementia (n=9) | 6-12 months | 4.089 | 1.926-8.681 | < 0.001 | 84.1 | 0.926 |
| Dementia (n=12) | >12 months | 5.189 | 2.437-11.050 | < 0.001 | 89.8 | 1.463 |
| Institutionalisation | Institutionalisation (n=29) | Collapsed | 2.801 | 2.144-3.659 | <0.001 | 74.9 | 0.335 |
| Institutionalisation (n=15) | ≤6 months | 2.729 | 1.814-4.105 | <0.001 | 75.5 | 0.403 |
| Institutionalisation (n=12) | 6-12 months | 3.262 | 2.058-5.171 | <0.001 | 74.1 | 0.474 |
| Institutionalisation (n=5) | >12 months | 2.570 | 1.612-4.097 | < 0.001 | 50.7 | 0.135 |
| Readmission/revisit | Readmission/revisit (n=31) | Collapsed | 1.699 | 1.395-2.070 | < 0.001 | 66.4 | 0.163 |
| Readmission/revisit (n=29) | ≤6 months | 1.734 | 1.387-2.168 | < 0.001 | 67.3 | 0.203 |
| Readmission/revisit (n=5) | >6 months | 1.573 | 1.268-1.951 | < 0.001 | 0.0 | 0.000 |
| Mortality | Mortality (n=165) | Collapsed | 2.548 | 2.339-2.776 | < 0.001 | 82.4 | 0.190 |
| Mortality (n=103) | ≤6 months | 2.934 | 2.609-3.299 | < 0.001 | 73.4 | 0.186 |
| Mortality (n=75) | 6-12 months | 2.384 | 2.117-2.685 | < 0.001 | 73.9 | 0.161 |
| Mortality (n=42) | >12 months | 2.022 | 1.675-2.441 | < 0.001 | 84.9 | 0.260 |

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

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Clinical outcome** | **Sub-group**  **(number of studies)** | **Timepoint** | **Hedges's g** | **95% CI** | **p-value** | **I²** (%) | **τ²** |
| Cognition | Cognitive impairment (n=43) | Collapsed | -0.563 | -0.674 to -0.452 | <0.001 | 93.6 | 0.114 |
| Cognitive impairment (n=33) | ≤6 months | -0.525 | -0.639 to -0.410 | <0.001 | 87.4 | 0.083 |
| Cognitive impairment (n=17) | 6-12 months | -0.601 | -0.790 to -0.411 | <0.001 | 88.2 | 0.127 |
| Cognitive impairment (n=11) | >12 months | -0.723 | -1.017 to -0.430 | <0.001 | 96.8 | 0.222 |
| Cognitive decline (n=4) | Collapsed | -0.693 | -1.531 to 0.146 | 0.105 | 98.0 | 0.714 |
| Cognitive decline (n=3) | ≤6 months | -0.660 | -1.842 to 0.522 | 0.274 | 98.5 | 1.071 |
| Cognitive changes (n=10) | Collapsed | -0.160 | -0.237 to -0.083 | <0.001 | 58.4 | 0.007 |
| Cognitive changes (n=7) | ≤6 months | -0.178 | -0.292 to -0.064 | 0.002 | 62.5 | 0.013 |
| Cognitive changes (n=5) | 6-12 months | -0.052 | -0.254 to 0.150 | 0.613 | 71.0 | 0.035 |
| Cognitive changes (n=3) | >12 months | -0.158 | -0.320 to 0.004 | 0.004 | 82.0 | 0.017 |
| Functional outcome | Functional impairment (n=38) | Collapsed | -0.644 | -0.853 to -0.435 | <0.001 | 97.7 | 0.407 |
| Functional impairment (n=32) | ≤6 months | -0.651 | -0.904 to -0.398 | <0.001 | 97.5 | 0.509 |
| Functional impairment (n=13) | 6-12 months | -0.581 | -0.892 to -0.270 | 0.001 | 95.6 | 0.297 |
| Functional impairment (n=6) | >12 months | -0.506 | -0.812 to -0.200 | 0.001 | 92.2 | 0.125 |
| Functional decline (n=2) | Collapsed | -0.320 | -0.788 to -0.149 | 0.181 | 69.3 | 0.084 |
| Functional change (n=6) | Collapsed | -0.204 | -0.431 to 0.023 | 0.078 | 74.4 | 0.055 |
| Functional change (n=4) | ≤6 months | -0.177 | -0.437 to 0.083 | 0.182 | 76.3 | 0.053 |
| Functional change (n=2) | >6 months | -0.111 | -0.304 to 0.081 | 0.258 | 0.0 | 0.00 |
| Quality of life | Poor quality of life (n=22) | Collapsed | -0.443 | -0.563 to -0.323 | <0.001 | 93.6 | 0.068 |
| Poor quality of life (n=14) | ≤6 months | -0.331 | -0.465 to -0.196 | <0.001 | 88.8 | 0.051 |
| Poor quality of life (n=8) | 6-12 months | -0.419 | -0.613 to -0.225 | <0.001 | 89.5 | 0.062 |
| Poor quality of life (n=2) | >12 months | -0.448 | -0.905 to 0.008 | 0.054 | 87.5 | 0.096 |
| Mental health | Mental health problems (n=11) | Collapsed | -0.328 | -0.488 to -0.168 | <0.001 | 76.1 | 0.050 |
| Mental health problems (n=10) | ≤6 months | -0.313 | 0.493 to -0.133 | 0.001 | 71.8 | 0.052 |
| Mental health problems (n=5) | 6-12 months | -0.411 | -0.650 to -0.173 | 0.001 | 24.1 | 0.018 |
| Mental health problems (n=2) | >12 months | -0.460 | -0.726 to -0.194 | 0.001 | 0.0 | 0.000 |