Evidence Table D-40. Cognitive outcomes for studies comparing interventions to treat delirium

| Author, year | Population | Intervention group, n | Control group, n | Route of administration | Outcome definition | MMSE, intervention group | MMSE, control group | Mean between-group difference (95% CI) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Second-generation antipsychotic vs. placebo |  |  |  |  |  |  |  |  |
| Tahir, 2010[59](#_ENREF_59) | Patients in medical, surgical and orthopedic wards, who met the DSM-IV criteria for delirium on the same day if they had a DRS-R-98 total score of 15 or more | Quetiapine (Mean dose: 40 Dose range: 25 - 175mg), 21 | Placebo (Mean dose: 25 Max dose: 175mg), 21 | Oral | Mini Mental Status: | Baseline: Mean 11.829 (SE 4.08) Final: Mean 16.317 (SE 3.689) | Baseline: Mean 11.829 (SE 4.08) Final: Mean 16.773 (SE 3.838) | -0.46 (95% CI: -19.29 to 18.38) |
| Tahir, 2010[59](#_ENREF_59) | Patients in medical, surgical and orthopedic wards, who met the DSM-IV criteria for delirium on the same day if they had a DRS-R-98 total score of 15 or more | Quetiapine (Mean dose: 40 Dose range: 25 - 175mg), 21 | Placebo (Mean dose: 25 Max dose: 175mg), 21 | Oral | Mini Mental Status: | Baseline: Mean 11.829 (SE 4.08) Final: Mean 18.504 (SE 4.739) | Baseline: Mean 11.829 (SE 4.08) Final: Mean 18.534 (SE 4.757) | -0.03 (95% CI: -21.24 to 21.18) |
| First-generation antipsychotic vs. first-generation antipsychotic |  |  |  |  |  |  |  |  |
| Breitbart, 1996[22](#_ENREF_22) | Medically hospitalized adult patients with AIDS and a DRS score of 13 or greater (delirium) | Haloperidol (Planned dose: oral: 0.25-5.0mg, Intramuscular: 0.125-3.0mg Mean dose: 1.4 Dose range: 0.4 - 3.6mg), 11 | Chlorpromazine (Planned dose: Oral: 10-200mg, Intramuscular: 5-100mg Mean dose: 36 Dose range: 10-80mg), 13 | Oral or intramuscular | Mini Mental Status: | Baseline: Mean 13.45 (SD 6.95) Final: Mean 17.18 (SD 12.12) | Baseline: Mean 10.92 (SD 8.87) Final: Mean 15.08 (SD 10.43) | -0.43 (95% CI: -12.20 to 11.34) |
| First-generation antipsychotic vs. second-generation antipsychotic |  |  |  |  |  |  |  |  |
| Grover, 2011[30](#_ENREF_30) | Consecutive patients >-18 years old referred to psychiatry and diagnosed with delirium | Risperidone (Mean dose: 0.95mg Dose range: 0.5-2.0mg per day), 20 | Haloperidol (Mean dose: 0.88 Dose range: 0.25-5mg per day), 21 | Oral | Mini Mental Status: | Baseline: Mean 6.84 (SD 5.33) Final: Mean 22.31 (SD 6.63) | Baseline: Mean 6.38 (SD 5.02) Final: Mean 21.71 (SD 7.66) | 0.14 (95% CI: -5.95 to 6.23) |

| Author, year | Population | Intervention group, n | Control group, n | Route of administration | Outcome definition | MMSE, intervention group | MMSE, control group | Mean between-group difference (95% CI) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Grover, 2011[30](#_ENREF_30) | Consecutive patients >-18 years old referred to psychiatry and diagnosed with delirium | Olanzapine (Mean dose: 3.05mg Dose range: 1.25-10 mg per day), 23 | Haloperidol (Mean dose: 0.88 Dose range: 0.25-5mg per day), 21 | Oral | Mini Mental Status: | Baseline: Mean 9.72 (SD 6.3) Final: Mean 20.77 (SD 8.14) | Baseline: Mean 6.38 (SD 5.02) Final: Mean 21.71 (SD 7.66) | -4.28 (95% CI: -10.61 to 2.05) |
| Grover, 2016[31](#_ENREF_31) | Patients >18 years old referred to Psychiatry who met DSM-IV criteria for delirium | Quetiapine (Mean dose: 26.63 ± 15.61 Dose range: 12.5-75mg), 31 | Haloperidol (Mean dose: 0.67 ± 0.35 Dose range: 0.25-1.25mg), 32 | Oral | Mini Mental Status: | Change from baseline: Mean 12.23 (Not reported) Baseline: Mean 6.83 (SD 4.45) Final: Mean 22.54 (SD 5.34) | Change from baseline: Mean 12.38 (Not reported) Baseline: 7.5 SD (3.83 Not reported) Final: 23 SD (4.75 Not reported) | 0.15 (95% CI: -3.43 to 3.73) |
| Second-generation antipsychotic vs. second-generation antipsychotic |  |  |  |  |  |  |  |  |
| Grover, 2011[30](#_ENREF_30) | Consecutive patients >-18 years old referred to psychiatry and diagnosed with delirium | Risperidone (Mean dose: 0.95mg Dose range: 0.5-2.0mg per day), 20 | Olanzapine (Mean dose: 3.05mg Dose range: 1.25-10 mg per day), 23 | Oral | Mini Mental Status: | Baseline: Mean 6.84 (SD 5.33) Final: Mean 22.31 (SD 6.63) | Baseline: Mean 9.72 (SD 6.3) Final: Mean 20.77 (SD 8.14) | 4.42 (95% CI: -2.16 to 11.00) |
| First-generation antipsychotic vs. other |  |  |  |  |  |  |  |  |
| Breitbart, 1996[22](#_ENREF_22) | Medically hospitalized adult patients with AIDS and a DRS score of 13 or greater (delirium) | Lorazepam (Planned dose: Oral: 0.50-4.0mg, Intramuscular: 0.2-2.0mg Mean dose: 4.6 Dose range: 1.3 - 7.9mg), 6 | Chlorpromazine (Planned dose: Oral: 10-200mg, Intramuscular: 5-100mg Mean dose: 36 Dose range: 10-80mg), 13 | Oral or intramuscular | Mini Mental Status: | Baseline: Mean 15.17 (SD 5.31) Final: Mean 11.5 (SD 8.69) | Baseline: Mean 10.92 (SD 8.87) Final: Mean 15.08 (SD 10.43) | -7.83 (95% CI: -19.15 to 3.49) |
| Breitbart, 1996[22](#_ENREF_22) | Medically hospitalized adult patients with AIDS and a DRS score of 13 or greater (delirium) | Lorazepam (Planned dose: Oral: 0.50-4.0mg, Intramuscular: 0.2-2.0mg Mean dose: 4.6 Dose range: 1.3 - 7.9mg), 6 | Haloperidol (Planned dose: oral: 0.25-5.0mg, Intramuscular: 0.125-3.0mg Mean dose: 1.4 Dose range: 0.4 - 3.6mg), 11 | Oral or intramuscular | Mini Mental Status: | Baseline: Mean 15.17 (SD 5.31) Final: Mean 11.5 (SD 8.69) | Baseline: Mean 13.45 (SD 6.95) Final: Mean 17.18 (SD 12.12) | -7.40 (95% CI: -19.11 to 4.31) |

AIDS=acquired immunodeficiency syndrome; CI=confidence interval; DRS-R-98= Delirium Rating Scale Revised-98; DSM-IV=Diagnostic and Statistical Manual of Mental Disorders, 4th ed; mg=milligram; MMSE=Mini-Mental State Examination; SD=standard deviation; SE=standard error