

NKR opdt. delir PICO 7 Behandling af delir med antiopsykotika

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Plain language summary

[Summary title]

[Summary text]

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Methods	<p>Study design: Randomized controlled trial</p> <p>Study grouping: Parallel group</p>
Participants	<p>Baseline Characteristics</p> <p>Intervention</p> <ul style="list-style-type: none"> ● Age: 76.5 (8.2) ● Delir ved studie start: Delirium symptom score: 2.60 (1.48) <p>Control</p> <ul style="list-style-type: none"> ● Age: 73.8 (10.7) ● Delir ved studie start: Delirium symptom score: 2.54 (1.43) <p>Intervention 2</p> <ul style="list-style-type: none"> ● Age: 74.5 (10.6) ● Coma: ● Mechanical ventilation: ● surgery: ● Delir ved studie start: Delirium symptom score: 2.54 (1.23) <p>Included criteria: Participants included adult patients receiving hospice or palliative care with advanced, progressive disease that was no longer curable who required inpatient care by a specialist palliative care team. Participants needed to meet the following criteria: delirium diagnosed via criteria from the Diagnostic and Statistical Manual of Mental Disorders (Fourth Edition, Text Revision), Memorial Delirium Assessment Scale (MDAS) score of 7 or more, and presence of the target symptoms of delirium associated with distress, defined as a delirium symptoms score of 1 or more (sum of the scores from items 2 [inappropriate behavior], 3 [inappropriate communication], and 4 [illusions and hallucinations]) on the Nursing Delirium Screening Scale [NuDESC] [severity range, 0-6]</p> <p>Excluded criteria: Exclusion criteria included delirium due to substance withdrawal, history of neuroleptic malignant syndrome, regular use of antipsychotic drugs within 48 hours (a single as-needed dose was allowed if administered more than 24 hours before the study for a non-delirium indication), previous adverse reaction to antipsychotic drugs, extrapyramidal disorders, prolonged QT interval, clinician-predicted survival of 7 days or fewer, cerebrovascular accident or seizure in the prior 30 days, and pregnancy or breastfeeding. Participants were required to speak English and be able to swallow liquids</p> <p>Pretreatment: The study reached its preplanned sample size, with comparable clinicodemographic baseline data between arms</p>

<p>Interventions</p>	<p>Intervention Characteristics</p> <p>Intervention</p> <ul style="list-style-type: none"> ● Description: haloperidol (Partici-pants 65 years or younger received a 0.5 mg loading dose administered with the first dose of 0.5 mg, then 0.5 mg main-tenance doses every 12 hours. Doses could be titrated by 0.25mg on day 1 and by 0.5 mg thereafter to a maximum dose of 4mg/d. For participants older than 65 years, the loading, ini-tial, and maximum doses were halved.) (Doses were increased if the sum of NUDESC scores for items 2, 3, and 4 (delirium symptoms score) was 1 or more at the most recent assessment, conducted every 8 hours. Dose reduction to the prior dose could occur for adverse effects, resolution of delirium (MDAS score of <7 for 48 hours), or resolution of symptoms (all NUDESC item scores <1 for 48 hours)) ● Duration of intervention: 72 hours ● Evt. rescue medication: Midazolam use was significantly lower among those in the placebo arm compared with the risperidone and haloperidol arms combined on each study day (13 of 75 [17.3%] vs 50 of 144[34.7%] on day 1;P= .007; 11 of 68 [16.8%] vs 40 of 121 [33.1%]on day 2;P= .01; and 9 of 66 [13.6%] vs 32 of 108 [29.6%] onday 3;P= .02). ● Co-medication: Patients receiving opioids, N: 31 (38) <p>Control</p> <ul style="list-style-type: none"> ● Description: Placebo. Partici-pants 65 years or younger received a 0.5 mg loading dose administered with the first dose of 0.5 mg, then 0.5 mg main-tenance doses every 12 hours. Doses could be titrated by 0.25mg on day 1 and by 0.5 mg thereafter to a maximum dose of 4mg/d. For participants older than 65 years, the loading, ini-tial, and maximum doses were halved. The placebo solution was titrated similarly using matching volumes of solution for each dose level. ● Duration of intervention: 72 hours ● Evt. rescue medication: Midazolam use was significantly lower among those in the placebo arm compared with the risperidone and haloperidol arms combined on each study day (13 of 75 [17.3%] vs 50 of 144[34.7%] on day 1;P= .007; 11 of 68 [16.8%] vs 40 of 121 [33.1%]on day 2;P= .01; and 9 of 66 [13.6%] vs 32 of 108 [29.6%] onday 3;P= .02). ● Co-medication: Patients receiving opioids, N: 35 (42) <p>Intervention 2</p> <ul style="list-style-type: none"> ● Description: risperidone (Partici-pants 65 years or younger received a 0.5 mg loading dose administered with the first dose of 0.5 mg, then 0.5 mg main-tenance doses every 12 hours. Doses could be titrated by 0.25mg on day 1 and by 0.5 mg thereafter to a maximum dose of 4mg/d. For participants older than 65 years, the loading, ini-tial, and maximum doses were halved.) (Doses were increased if the sum of NUDESC scores for items 2, 3, and 4 (delirium symptoms score) was 1 or more at the most recent assessment, conducted every 8 hours. Dose reduction to the prior dose could occur for adverse effects, resolution of delirium (MDAS score of <7 for 48 hours), or resolution of symptoms (all NUDESC item scores <1 for 48 hours)) ● Duration of intervention: 72 hours ● Evt. rescue medication: Midazolam use was significantly lower among those in the placebo arm compared with the risperidone and haloperidol arms combined on each study day (13 of 75 [17.3%] vs 50 of 144[34.7%] on day 1;P= .007; 11 of 68 [16.8%] vs 40 of 121 [33.1%]on day 2;P= .01; and 9 of 66 [13.6%] vs 32 of 108 [29.6%] onday 3;P= .02). ● Co-medication: Patients receiving opioids, N: 39 (48)
<p>Outcomes</p>	<p>SAE (under indlæggelse)</p> <ul style="list-style-type: none"> ● Outcome type: Dichotomous Outcome <p>Delirium varighed (Mean CI)</p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome <p>Delirium varighed (Mean SD)</p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome <p>Kritisk Uro</p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome <p>Indlæggelses tid</p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome <p>Genindlæggelser Op til 3 mdr. efter udskrivelse</p> <ul style="list-style-type: none"> ● Outcome type: Dichotomous Outcome <p>Fald</p> <ul style="list-style-type: none"> ● Outcome type: Dichotomous Outcome <p>Angst</p>

	<ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome <p><i>Ekstrapyramidale bivirkninger</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome <p><i>Ekstrapyramidale bivirkninger</i></p> <ul style="list-style-type: none"> ● Outcome type: DichotomousOutcome <p><i>Kognitiv funktion</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome <p><i>Død</i></p> <ul style="list-style-type: none"> ● Outcome type: DichotomousOutcome <p><i>Delirium severity</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome
Identification	<p>Sponsorship source: This study was funded by the Australian Government's Department of Health under the National Palliative Care Strategy. Individual site funding was supplemented by grant NHMRC 480476 from the National Health and Medical Research Council, Australia</p> <p>Country: Australia</p> <p>Setting: inpatient hospice or hospital palliative care</p> <p>Comments: http://www.anzctr.org.au/trial_view.aspx?ACTRN=ACTRN12607000562471</p> <p>Authors name: Meera R. Agar</p> <p>Institution: Centre for Cardiovascular and Chronic Care, Faculty of Health, University of Technology Sydney</p> <p>Email: meera.agar@uts.edu.au</p> <p>Address: Centre for Cardiovascular and Chronic Care, Faculty of Health, University of Technology Sydney, Level 3, 235 Jones St (PO Box 123), Ultimo, New South Wales, Australia</p>
Notes	

Risk of bias table

Bias	Authors' judgement	Support for judgement
Sequence Generation	Low risk	rights reserved. Randomization and Masking -> Site randomization schedules were generated using random number tables at an independent blinded central registry. Participants were randomized in blocks of 6 by site in a 1:1 ratio by arm. Allocation concealment was by sealed opaque envelopes. Site-> clinical trial pharmacists who opened
Allocation concealment	Low risk	Allocation concealment was by sealed opaque envelopes. clinical trial pharmacists who opened the treatment schedules to prepare the intervention were not otherwise involved in patient care.
Blinding of participants and personnel	Low risk	Site clinical trial pharmacists who opened the treatment schedules to prepare the intervention were not otherwise involved in patient care. Study medication was dispensed in opaque screw-top bottles, which were identical in terms of volume, color, and smell and taste of the contents. Treatment assignment was double-blinded: both participants and investigators were masked to treatment group for the duration of the study. Study medication was dispensed in opaque screw-top bottles, which were identical in terms of volume, color, and smell and taste of the contents.
Blinding of outcome assessors	Low risk	covariate. Secondary outcomes included daily MDAS score, lowest delirium symptoms score, daily use of midazolam use, extrapyramidal symptoms assessed by the Extrapyramidal Symptom Rating Scale, sedation assessed by the Richmond Agitation-Sedation Scale, National Cancer Institute Common Terminology Criteria for Adverse Events, and survival. Treatment assignment was double-blinded: both participants and investigators were masked to treatment group for the duration of the study.
Incomplete outcome data	Low risk	Present results from ITT analyses
Selective outcome reporting	Unclear risk	TRIAL REGISTRATION anzctr.org.au Identifier: ACTRN12607000562471.

Other sources of bias	Unclear risk	Interest Disclosures: None reported. Funding/Support: This study was funded by the Australian Government's Department of Health under the National Palliative Care Strategy. Individual site funding was supplemented by grant NHMRC 480476 from the National Health and Medical Research Council, Australia. Role of the Funder/Sponsor: The funding sources had no role in the design and conduct of the study; collection, management, analysis, and interpretation of data; preparation review, or approval of the manuscript; and decision to submit the manuscript for publication.
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Methods	
Participants	
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Risk of bias table

Bias	Authors' judgement	Support for judgement
Sequence Generation	Unclear risk	
Allocation concealment	Unclear risk	
Blinding of participants and personnel	Unclear risk	
Blinding of outcome assessors	Unclear risk	
Incomplete outcome data	Unclear risk	
Selective outcome reporting	Unclear risk	
Other sources of bias	Unclear risk	

Devlin 2010

Methods	<p>Study design: Randomized controlled trial Study grouping: Parallel group Open Label: Cluster RCT:</p>
Participants	<p>Baseline Characteristics Intervention <ul style="list-style-type: none"> ● Age: 62.4 (14) ● <i>Antal pt. med delir ved studiestart:</i> 100% Kontrol <ul style="list-style-type: none"> ● Age: 63.6 (15.3) ● <i>Antal pt. med delir ved studiestart:</i> 100% <p>Included criteria: April 2006-august 2008 adult patients admitted to the medical and surgical ICU at each institution with delirium diagnosed with the ICDSC, had an order for as-needed haloperidol and were tolerating enteral nutrition. Excluded criteria: History of irreversible cognitive dysfunctionAdmitted with a primary neurological condition or injury/History of hepatic encephalopathy or end-stage liver failure</p> </p>

	<p>(Childs Pugh B or worse)Actively withdrawing from alcoholTreatment with an antipsychotic agent in the 30 days before ICU-admissionCurrent treatment with dexmedetomidine or neuromuscular blockerCurrent treatment with an agent having either the potential to affect the quetiapine concentration or increase the risk of QTc prolongation.Baseeline QTc > 500 msPregnancyNon-english speakingPresence of a condition preventing delirium assessmentPrognosis considered hopelessInformed consent could not be obtained from the legally authorized representative.</p> <p>Pretreatment: Væsentlig flere intuberede ved start i placebo gruppe og flere udsat for fentanyl og benzo i de sidste 24 timer. Flere kom hjemmefra i interventionsgruppe.</p>
<p>Interventions</p>	<p>Intervention Characteristics</p> <p>Intervention</p> <ul style="list-style-type: none"> ● <i>Description:</i> Patients receive Quetiapine, dosage 50mg every 12 hours (100mg /day) ● <i>Duration of intervention:</i> Pt. deliriumfi, udskrives fra ICU, oplever adverse events eller 10 dage. ● <i>Evt rescue-medication:</i> I.v. haloperidol 1-10 mg administered min 2 hours interval as-needed basis <p>Kontrol</p> <ul style="list-style-type: none"> ● <i>Description:</i> Patients receive placebo (50 mg NG twice a day - 12 hours interval) ● <i>Duration of intervention:</i> as for the IV group ● <i>Evt rescue-medication:</i> as for the IV group
<p>Outcomes</p>	<p><i>Dead/mortality (Ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: DichotomousOutcome ● Reporting: Fully reported <p><i>Genindlæggelse/re-admissions (3 mdr FU)</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome ● Reporting: Not reported <p><i>Fald/falls (Ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome ● Reporting: Not reported <p><i>Funktionsevne/physical function (ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome ● Reporting: Not reported <p><i>Angst/anxiety (Ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome ● Reporting: Not reported <p><i>Ekstrapyramidale bivirkninger/extrapyramidal symptoms (Ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: DichotomousOutcome ● Reporting: Fully reported <p><i>Uro/restlessness (ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome ● Reporting: Not reported <p><i>SAE (Ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: DichotomousOutcome ● Reporting: Fully reported <p><i>Dead/mortality (3 mdr FU)</i></p> <ul style="list-style-type: none"> ● Outcome type: DichotomousOutcome ● Reporting: Not reported <p><i>Delirium severity (ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome

	<ul style="list-style-type: none"> ● Reporting: Partially reported ● Scale: DRS-S-98 ● Range: 0-46 ● Direction: Lower is better
Identification	<p>Sponsorship source: Society of Critical Care Medicines; Critical Care Pharmacy research Award; Astra Zeneca Pharmaceuticals; Author grant support from Hospira</p> <p>Country: US</p> <p>Setting: Intensive care unit /critically ill</p> <p>Comments:</p> <p>Authors name: J.Devlin</p> <p>Institution: Northeastern University School of Pharmacy, Boston MA</p> <p>Email: j.devlin@neu.edu</p> <p>Address: Northeastern University School of Pharmacy, Boston MA</p>
Notes	<p><i>Susanne Stabel Gren</i> on 07/06/2016 07:59 Select Placebokontrolleret RCT på ITA-ptt. Selvom det er en lille gruppe 36 skal det med</p> <p><i>Jakob Carlsen</i> on 07/06/2016 18:51 Select Quetiapin med "ad-on" serenade. Lille, men relevant?!</p> <p><i>Nkr 42 Delir</i> on 14/06/2016 22:42 Outcomes Indlæggelsestid (Ved udskrivelse) opgjort i median (interquartile range)Intervention: 24 (11-33)Kontrol: 26 (17-49)Delirvarighed (Ved udskrivelse) opgjort i median (interquartile range)Intervention: 36 (12-87) timerKontrol: 120 (60-195)</p> <p><i>Henning Keinke Andersen</i> on 16/06/2016 22:09 Outcomes I assume the notified mortality rates (2 resp. 3) are at discharge from the hospital unit!</p>

Risk of bias table

Bias	Authors' judgement	Support for judgement
Sequence Generation	Low risk	Judgement Comment: Computergenerated random number table
Allocation concealment	Unclear risk	Judgement Comment: Not enough details. 'Known to the investigator at each site'
Blinding of participants and personnel	Low risk	Judgement Comment: Patients blinded. no info on personnel
Blinding of outcome assessors	Unclear risk	Judgement Comment: Ej beskrevet hvem der vurderer. Desuden databehandling ej beskrevet om blinding.
Incomplete outcome data	Low risk	Judgement Comment: 36 pts randomised. Data were obtained from all 18 allocated pts in each group.
Selective outcome reporting	Low risk	Judgement Comment: No study protocol available, but the outlined endpoints in the RCT are all reported.
Other sources of bias	Low risk	Judgement Comment: Study seems to be free of other sources of bias

<p>Methods</p>	<p>Study design: Randomized controlled trial Study grouping: Parallel group</p>
<p>Participants</p>	<p>Baseline Characteristics</p> <p>Intervention</p> <ul style="list-style-type: none"> ● Age: Median age (IQR) — yr): 61 (51–69) ● Coma: ● Mechanical ventilation: Invasive: 178 (93); Noninvasive: 7 (4) ● surgery: Surgery diagnosis at admission: 13 (7%) ● Delir ved studie start: Hyper: 19 (10%); Hypo: 172 (90%) <p>Control</p> <ul style="list-style-type: none"> ● Age: Median age (IQR) — yr): 59 (52–67) ● Coma: ● Mechanical ventilation: Invasive: 170 (92); Noninvasive: 5 (3) ● surgery: Surgery diagnosis at admission: 13 (7%) ● Delir ved studie start: Hyper: 22 (12%); Hypo: 161 (88%) <p>Intervention 2</p> <ul style="list-style-type: none"> ● Age: Median age (IQR) — yr): 61 (50–69) ● Coma: ● Mechanical ventilation: Invasive: 180 (95); Noninvasive: 5 (3) ● surgery: Surgery diagnosis at admission: 23 (12%) ● Delir ved studie start: Hyper: 16 (8%); Hypo: 172 (91%) <p>Overall</p> <ul style="list-style-type: none"> ● Age: ● Coma: ● Mechanical ventilation: ● surgery: ● Delir ved studie start: <p>Included criteria: Patients who had been admitted to the participating hospitals were eligible for inclusion if they were 18 years of age or older and were receiving treatment in a medical or surgical ICU with invasive or noninvasive positive pressure ventilation, vasopressors, or an intraaortic balloon pump, and they were eligible for random assignment to a trial group if they had delirium.</p> <p>Excluded criteria: We excluded patients who, at baseline, had severe cognitive impairment, as determined by medical record review and the short form of the Informant Questionnaire on Cognitive Decline in the Elderly (IQCODE; scores range from 1.0 to 5.0, with higher scores indicating more severe cognitive impairment [a score of ≥ 4.5 resulted in exclusion because of severe dementia]); were at high risk for medication side effects because of pregnancy, breast-feeding, a history of torsades de pointes, QT prolongation, a history of neuroleptic malignant syndrome, or allergy to haloperidol or ziprasidone; were receiving ongoing treatment with an antipsychotic medication; were in a moribund state; had rapidly resolving organ failure; were blind, deaf, or unable to speak or understand English; were incarcerated; or were enrolled in another study or trial that prohibited enrollment. Details of the inclusion and exclusion criteria are provided in the Supplementary Appendix. Noncomatose patients were excluded if informed consent could not be obtained within 72 hours after inclusion criteria had been met, and comatose patients were excluded if informed consent could not be obtained within 120 hours after inclusion criteria had been met.</p> <p>Pretreatment: There were no significant differences in baseline characteristics between the trial groups (Table 1)</p>
<p>Interventions</p>	<p>Intervention Characteristics</p> <p>Intervention</p> <ul style="list-style-type: none"> ● Description: HALOPERIDOL: The trial drugs or placebo were administered intravenously with the use of colorless preparations delivered in identical bags. Immediately after the trial-group assignment, the first dose of a trial drug or placebo was administered. Patients younger than 70 years of age received 2.5 mg of haloperidol per 0.5 ml, whereas those who were 70 years of age or older received 1.25 mg of haloperidol per 0.25 ml. Subsequent doses were administered every 12 hours at approximately 10 a.m. and 10 p.m. Research personnel doubled the volume and dose of the trial drug or placebo if a patient had delirium, was not yet receiving the maximum dose, and had not met criteria that

	<p>required the trial drug or placebo to bewithheld. Patients in the haloperidol group received a dose of up to 10 mg per administration and up to 20 mg per day.</p> <ul style="list-style-type: none"> ● <i>Duration of intervention:</i> 14 days or ICU discharge ● <i>Evt. rescue medication:</i> In the current trial, approximately 90% of the patients received one or more doses of sedatives or analgesics, and the doses of sedatives and off-trial antipsychotic medications and the durations of exposures to those agents were similar in all trial groups ● <i>Co-medication:</i> Received antipsychotic Between admission and randomization (N (%)): 20 (10) <p>Control</p> <ul style="list-style-type: none"> ● <i>Description:</i> PLACEBO: The trial drugs or placebo were administered intravenously with the use of colorless preparations delivered in identical bags. Immediately after the trial-group assignment, the first dose of a trial drug or placebo was administered. Patients younger than 70 years of age received 0.5 ml of placebo (0.9% saline), whereas those who were 70 years of age or older received 0.25 ml of placebo. Subsequent doses were administered every 12 hours at approximately 10 a.m. and 10 p.m. Research personnel doubled the volume and dose of the trial drug or placebo if a patient had delirium, was not yet receiving the maximum dose, and had not met criteria that required the trial drug or placebo to be withheld. ● <i>Duration of intervention:</i> 14 days or ICU discharge ● <i>Evt. rescue medication:</i> In the current trial, approximately 90% of the patients received one or more doses of sedatives or analgesics, and the doses of sedatives and off-trial antipsychotic medications and the durations of exposures to those agents were similar in all trial groups ● <i>Co-medication:</i> Received antipsychotic Between admission and randomization (N (%)): 18 (10) <p>Intervention 2</p> <ul style="list-style-type: none"> ● <i>Description:</i> ZIPRASIDONE: The trial drugs or placebo were administered intravenously with the use of colorless preparations delivered in identical bags. Immediately after the trial-group assignment, the first dose of a trial drug or placebo was administered. Patients younger than 70 years of age received 5 mg of ziprasidone per 0.5 ml, whereas those who were 70 years of age or older received 2.5 mg of ziprasidone per 0.25 ml. Subsequent doses were administered every 12 hours at approximately 10 a.m. and 10 p.m. Research personnel doubled the volume and dose of the trial drug or placebo if a patient had delirium, was not yet receiving the maximum dose, and had not met criteria that required the trial drug or placebo to be withheld. Those in the ziprasidone group received a dose of up to 20 mg per administration and up to 40 mg per day. ● <i>Duration of intervention:</i> 14 days or ICU discharge ● <i>Evt. rescue medication:</i> In the current trial, approximately 90% of the patients received one or more doses of sedatives or analgesics, and the doses of sedatives and off-trial antipsychotic medications and the durations of exposures to those agents were similar in all trial groups ● <i>Co-medication:</i> Received antipsychotic Between admission and randomization (N (%)): 22 (12)
<p>Outcomes</p>	<p><i>SAE (under indlæggelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: Dichotomous Outcome ● Reporting: Fully reported ● Direction: Lower is better ● Data value: Endpoint <p><i>Delirium varighed (Mean CI)</i></p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome ● Reporting: Fully reported ● Direction: Lower is better ● Data value: Endpoint <p><i>Delirium varighed (Mean SD)</i></p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome ● Reporting: Fully reported ● Direction: Lower is better ● Data value: Endpoint <p><i>Kritisk Uro</i></p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome ● Reporting: Fully reported ● Direction: Higher is better ● Data value: Endpoint <p><i>Indlæggelsesstid</i></p>

	<ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome ● Reporting: Fully reported ● Direction: Lower is better ● Data value: Endpoint <p><i>Genindlæggelser Op til 3 mdr. efter udskrivelse</i></p> <ul style="list-style-type: none"> ● Outcome type: DichotomousOutcome ● Reporting: Fully reported ● Data value: Endpoint <p><i>Fald</i></p> <ul style="list-style-type: none"> ● Outcome type: DichotomousOutcome ● Reporting: Fully reported ● Direction: Lower is better ● Data value: Endpoint <p><i>Angst</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome ● Reporting: Fully reported ● Data value: Endpoint <p><i>Ekstrapyramidale bivirkninger</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome ● Reporting: Fully reported ● Direction: Lower is better ● Data value: Endpoint <p><i>Ekstrapyramidale bivirkninger</i></p> <ul style="list-style-type: none"> ● Outcome type: DichotomousOutcome ● Direction: Lower is better ● Data value: Endpoint <p><i>Kognitiv funktion</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome ● Reporting: Fully reported ● Data value: Endpoint <p><i>Død</i></p> <ul style="list-style-type: none"> ● Outcome type: DichotomousOutcome ● Reporting: Fully reported ● Direction: Lower is better ● Data value: Endpoint <p><i>Delirium severity</i></p> <ul style="list-style-type: none"> ● Outcome type: ContinuousOutcome ● Reporting: Fully reported ● Data value: Endpoint
Identification	<p>Sponsorship source: Country: USA</p> <p>Setting: Comments: The trial was registered at ClinicalTrials.gov on September 29, 2010, before the first patient was enrolled. The statistical analysis plan was registered at Open Science Framework (https://osf.io/mq38r) on March 22, 2018</p> <p>Authors name: T.D. Girard</p>

Notes	<p>Institution: Email: wes.ely@vumc.org. Address: Dr. Ely at the Critical Illness, Brain Dysfunction, and Survivorship (CIBS) Center at Vanderbilt University, 2525 West End Ave., Suite 450, Nashville, TN 37203</p> <p>MKR 42 Delir on 19/08/2020 02:54</p> <p>Screen 3 arme</p> <p>Helle Svenningsen on 19/08/2020 22:58</p> <p>Select patienterne er både < og > 65 år, og der skelnes ikke i resultaterne</p>
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Risk of bias table

Bias	Authors' judgement	Support for judgement
Sequence Generation	Low risk	randomized, double-blind, placebo-controlled, phase-wise randomly assigned the patients, in a 1:1:1 ratio, to receive placebo, haloperidol, or ziprasidone using a computer-generated, permuted-block randomization scheme, with stratification according to trial site.
Allocation concealment	Low risk	The research personnel, managing clinicians, patients, and their families were not aware of the trial-group assignments.
Blinding of participants and personnel	Low risk	patients, and their families were not aware of the trial-group assignments. The research personnel, managing clinicians, patients, and their families were not aware of the trial-group assignments. The trial drugs or placebo were administered intravenously with the use of colorless preparations delivered in identical bags. s
Blinding of outcome assessors	Low risk	Objective measures of relevant outcomes
Incomplete outcome data	Low risk	A total of 300 of 6100 (5%) potential assessments for delirium or coma were missing; we imputed these individual assessments using polytomous logistic regression that included multiple co-variables. After calculating days alive without delirium or coma, we then used complete case analysis for all outcomes (see the Supplementary Appendix). COMMENT Safraporterer på alle der er randomiseret
Selective outcome reporting	Low risk	ClinicalTrials.gov number, NCT01211522.) The trial was registered at ClinicalTrials.gov on September 29, 2010, before the first patient was enrolled. The statistical analysis plan was registered at Open Science Framework (https://osf.io/mq38r) on We analyzed all data using an intention-to-treat approach and compared the effects of haloperidol, ziprasidone, and placebo with respect to the primary end point using the Kruskal-Wallis test in unadjusted analyses and proportional-odds logistic regression in adjusted analyses
Other sources of bias	Unclear risk	it is not stated whether or not the patients had delirium before randomization. And the how do they obtain consent. Also they treat for the full 14 days, but what is the patients did not have delirium throughout the trial period.

Tahir 2010

Methods	<p>Study design: Randomized controlled trial Study grouping: Parallel group Open Label: Cluster RCT:</p>
Participants	<p>Baseline Characteristics Intervention <ul style="list-style-type: none"> ● Age: 84.1 (9.45) ● Delir ved studiets start: 100% Kontrol <ul style="list-style-type: none"> ● Age: 84.3 (7.16) </p>

	<ul style="list-style-type: none"> ● <i>Delir ved studiets start</i>: 100% <p>Included criteria: Screening for delirium was conducted by daily contact with medical, surgical and orthopedic wards at the University Hospital of Wales by a research assistant. An attempt was made to recruit those 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.</p> <p>Excluded criteria: Individuals with major pre-existing cognitive deficits, alcohol withdrawal, pre-existing psychosis, substance dependence, inability to comply with the constraints of the trial, or who were on medication that interacted with quetiapine were excluded from the study. The nature and degree of any pre-existing cognitive deficits were determined by reviewing clinical notes and by obtaining information from a reliable informant. Informed consent was obtained from participants with mental capacity.</p> <p>Pretreatment: none stated</p>
<p>Interventions</p>	<p>Intervention Characteristics</p> <p>Intervention</p> <ul style="list-style-type: none"> ● <i>Description</i>: flexible dosing regime of 25 mg once daily oral quetiapine with dose titration of 25mg/day to a maximum daily dose of 175 mg in divided doses. ● <i>Duration of intervention</i>: Optitrering i max 10 dage. FU i 30 dage i begge grp. ● <i>Evt. rescue medication</i>: Tiisyneladende 4 ptt. i interventionsgrp. faet lorazepam <p>Kontrol</p> <ul style="list-style-type: none"> ● <i>Description</i>: Matching placebo dose tablet. ● <i>Duration of intervention</i>: ● <i>Evt. rescue medication</i>: ingen.
<p>Outcomes</p>	<p><i>Dead/mortality (3 mdr FU)</i></p> <ul style="list-style-type: none"> ● Outcome type: Dichotomous Outcome ● Reporting: Fully reported ● Notes: Kun 30 dages FU <p><i>Genindlæggelse/readmissions (3 mdr FU)</i></p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome <p><i>Fald/falls (Ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome <p><i>Funktionsevne/physical function (ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome <p><i>Angst/anxiety (Ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome <p><i>Ekstrapyramidale bivirkninger/extrapyramidal symptoms (Ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: Dichotomous Outcome ● Reporting: Fully reported <p><i>Uro/restlessness (ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome <p><i>SAE (Ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: Dichotomous Outcome <p><i>Delirium severity (ved udskrivelse)</i></p> <ul style="list-style-type: none"> ● Outcome type: Continuous Outcome ● Reporting: Partially reported ● Scale: DRS-S-98 severity ● Range: 0-39 ● Unit of measure: point ● Direction: Lower is better ● Data value: Endpoint

Identification	<p>● Notes: Ingen udskrivelsesværdi, kun værdi på dag 10 for alle patienter.</p> <p>Sponsorship source: AstraZeneca UK sponsored the study and provided funding for a research assistant, trial medication, and the randomization codes</p> <p>Country: UK</p> <p>Setting: Medical, surgical and orthopedic wards</p> <p>Comments:</p> <p>Authors name: Tayyeb A. Tahir</p> <p>Institution: Department of Liaison Psychiatry, University Hospital of Wales, Cardiff and Vale University Health Board, Heath Park, Cardiff, UK</p> <p>Email: tayyeb.tahir@wales.nhs.uk</p> <p>Address: Corresponding author. Department of Liaison Psychiatry, Room 124, 1st Floor, Monmouth House, University Hospital of Wales, CF14 4XN Cardiff, UK</p>
Notes	<p><i>Jakob Carlsen</i> on 08/06/2016 05:15</p> <p>Select Seroquel vs. placebo.</p> <p><i>Susanne Stabel Gren</i> on 11/06/2016 18:30</p> <p>Included DB blindet RCT skal med</p> <p><i>Henning Keinke Andersen</i> on 16/06/2016 23:10</p> <p>Outcomes NBI Død er efter 30 dage og ikke 3 mdr Extrapyramidal symptoms reported as 'abnormal involuntary movements' (tolerability) p 488 Why not death at discharge, reported in fig 1 (3 IV; 1 Placebo)? Går ud fra ITT analyser</p>

Risk of bias table

Bias	Authors' judgement	Support for judgement
Sequence Generation	Low risk	Quote: "Computer-generated randomization codes"
Allocation concealment	Low risk	Quote: "Computer-generated randomization codes were kept in sealed envelopes at the University Hospital of Wales' Pharmacy. In addition, a set of individual treatment codes was kept by the Scottish Poisons Information Bureau, Royal Infirmary Edinburgh, for emergency out-of-hours use only."
Blinding of participants and personnel	Unclear risk	Judgement Comment: De beskriver ikke selve blindingsprocessen
Blinding of outcome assessors	Unclear risk	Judgement Comment: Ej beskrevet
Incomplete outcome data	Unclear risk	Quote: "To account for the non-completers, due to various reasons given below, it was important to take into account missing data and the improvement in delirium with or without medication; we used non-linear, mixed-effects model to estimate differences in recovery trajectories between treatment groups. Initially, we considered models that allowed different starting and long-term mean values in the two treatment groups; however, no significant evidence of such differences was found." Judgement Comment: There is a substantial drop-out rate for each group (5/21 for IV - and 7/21 for placebo). And it is notified that the trial stopped at an early stage (p 489)
Selective outcome reporting	Low risk	Judgement Comment: The outlined outcomes are reported fully of partial. Primary outcome (DRS-R-98) is reported
Other sources of bias	Unclear risk	Judgement Comment: Not quite sure whether the clinicians decision on dosage changes will affect the outcome. Probably - therefore the 'unclear'

Characteristics of excluded studies

Aizawa 2002

Reason for exclusion

Wrong intervention

Atalan 2013

Reason for exclusion

Wrong comparator

Bayindir 2001

Reason for exclusion

Wrong intervention

Boettger 2011

Reason for exclusion

Wrong comparator

Boettger 2011a

Reason for exclusion

Wrong study design

Boettger 2017

Reason for exclusion

Wrong study design

Breitbart 1996

Reason for exclusion

Wrong patient population

Breitbart 2002

Reason for exclusion

Wrong study design

Douglas 2008

Reason for exclusion

Wrong outcomes

Duprey 2018

Reason for exclusion

Wrong patient population

Duprey 2018a

Reason for exclusion

Wrong study design

Duprey 2020

Reason for exclusion	Wrong intervention
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Gill 2005

Reason for exclusion	Wrong study design
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Girard 2010

Reason for exclusion	Wrong patient population
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Grover 2011

Reason for exclusion	Wrong study design
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Hakim 2012

Reason for exclusion	
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Han 2001

Reason for exclusion	Wrong study design
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Han 2004

Reason for exclusion	Wrong study design
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Han 2009

Reason for exclusion	Wrong study design
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Herrmann 2004

Reason for exclusion	Wrong study design
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Horikawa 2003

Reason for exclusion	Wrong study design
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Hui 2017

Reason for exclusion	Wrong intervention
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Hui 2017a

Reason for exclusion	Wrong intervention
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Hui 2018

Reason for exclusion	Wrong intervention
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Hui 2020

Reason for exclusion	Wrong intervention
----------------------	--------------------

Jain 2017

Reason for exclusion	Wrong comparator
----------------------	------------------

Kalivaart 2005

Reason for exclusion	Wrong patient population
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Kaneko 1999

Reason for exclusion	Wrong patient population
----------------------	--------------------------

Khan 2019

Reason for exclusion	Wrong comparator
----------------------	------------------

Kim 2001

Reason for exclusion	Wrong study design
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Kim 2003

Reason for exclusion	Wrong comparator
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Kim 2005

Reason for exclusion	Wrong study design
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Kim 2010

Reason for exclusion	Wrong study design
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Kishi 2012

Reason for exclusion	Wrong study design
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Lee 2005

Reason for exclusion	Wrong intervention
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Lee 2017

Reason for exclusion	Wrong study design
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Lin 2004

Reason for exclusion	Wrong setting
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Maneeton 2013

Reason for exclusion	Wrong intervention
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Matsuoka 2019

Reason for exclusion	Wrong outcomes
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Mittal 2004

Reason for exclusion	Wrong comparator
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Miyaji 2007

Reason for exclusion	Wrong study design
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Omura 2003

Reason for exclusion	Wrong study design
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Pae 2004

Reason for exclusion	Wrong study design
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Page 2013

Reason for exclusion	Wrong patient population
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Pandharipande 2017

Reason for exclusion	Wrong study design
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Parellada 2004

Reason for exclusion	Wrong study design
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Prakanrattana 2007

Reason for exclusion	Wrong study design
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Reade 2009

Reason for exclusion	Wrong study design
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Sasaki 2003

Reason for exclusion	Wrong study design
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Schrijver 2018

Reason for exclusion	Wrong patient population
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Schrijver 2018a

Reason for exclusion	Wrong outcomes
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ShrikantKulkarni 2017

Reason for exclusion	Wrong study design
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Sipahimalani 1998

Reason for exclusion	Wrong study design
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Skrobik 2004

Reason for exclusion	Wrong study design
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Straker 2006

Reason for exclusion	Wrong intervention
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Tagarakis 2012

Reason for exclusion	Wrong intervention
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Takeuchi 2007

Reason for exclusion	Wrong study design
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Toda 2005

Reason for exclusion	Wrong study design
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vandenBoogaard 2013

Reason for exclusion	Wrong patient population
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vandenBoogaard 2018

Reason for exclusion	Wrong patient population
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VanDerVorst 2017

Reason for exclusion	Wrong comparator
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VanDerVorst 2018

Reason for exclusion	duplicate
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vanderVorst 2019

Reason for exclusion	Wrong comparator
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vanderVorst 2020

Reason for exclusion	Wrong comparator
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vanEijk 2010

Reason for exclusion	Wrong intervention
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Yoon 2013

Reason for exclusion	Wrong comparator
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Footnotes

Characteristics of studies awaiting classification

Footnotes

Characteristics of ongoing studies

Footnotes

Summary of findings tables

Additional tables

References to studies

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[Empty]

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Studies awaiting classification

Ongoing studies

Other references

Additional references

Other published versions of this review

Classification pending references

Data and analyses

1 Antipsykotika vs ingen antipsykotika

Outcome or Subgroup	Studies	Participants	Statistical Method	Effect Estimate
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1.1 SAE (under indlæggelse)	4			Risk Ratio (M-H, Random, 95% CI)	Subtotals only
1.1.1 All cause mortality	3	324		Risk Ratio (M-H, Random, 95% CI)	1.36 [0.72, 2.55]
1.1.2 Ophør eller afblænding af behandling	2	607		Risk Ratio (M-H, Random, 95% CI)	0.73 [0.24, 2.25]
1.1.3 Adverse events	1	41		Risk Ratio (M-H, Random, 95% CI)	2.86 [0.12, 66.44]
1.1.4 Serious adverse events	1	576		Risk Ratio (M-H, Random, 95% CI)	2.03 [0.23, 18.05]
1.2 Delirium varighed (dage)	2	602		Mean Difference (IV, Fixed, 95% CI)	-0.44 [-1.12, 0.24]
1.3 Urol/restlessness (under indlæggelse)	2	247		Mean Difference (IV, Fixed, 95% CI)	-0.10 [-0.22, 0.03]
1.4 Uro - Antal personer der får det bedre (RASS score på 0)	1	169		Risk Ratio (M-H, Fixed, 95% CI)	0.86 [0.67, 1.12]
1.5 Duration of hospitalization, days	2	602		Mean Difference (IV, Random, 95% CI)	-0.53 [-2.40, 1.35]
1.6 Genindlæggelser/readmissions (op til 3 mdr efter udskrivelse)	0	0		Mean Difference (IV, Fixed, 95% CI)	Not estimable
1.7 Fald/falls (under indlæggelse)	0	0		Mean Difference (IV, Fixed, 95% CI)	Not estimable
1.8 Angst/anxiety (Under indlæggelse)	0	0		Mean Difference (IV, Fixed, 95% CI)	Not estimable
1.10 Ekstrapyramidale bivirkninger (under indlæggelse)_RR	2	607		Risk Ratio (M-H, Fixed, 95% CI)	0.66 [0.15, 2.85]
1.12 Kognitiv funktion (min 3-6 mdr. efter udskrivelse)	0	0		Mean Difference (IV, Fixed, 95% CI)	Not estimable
1.13 Dødmortality (Op til 6 mdr. efter udskrivelse)	2	607		Risk Ratio (IV, Random, 95% CI)	1.06 [0.84, 1.34]
1.14 Delirium severity (ved udskrivelse)	3	288		Std. Mean Difference (IV, Random, 95% CI)	0.32 [0.08, 0.57]

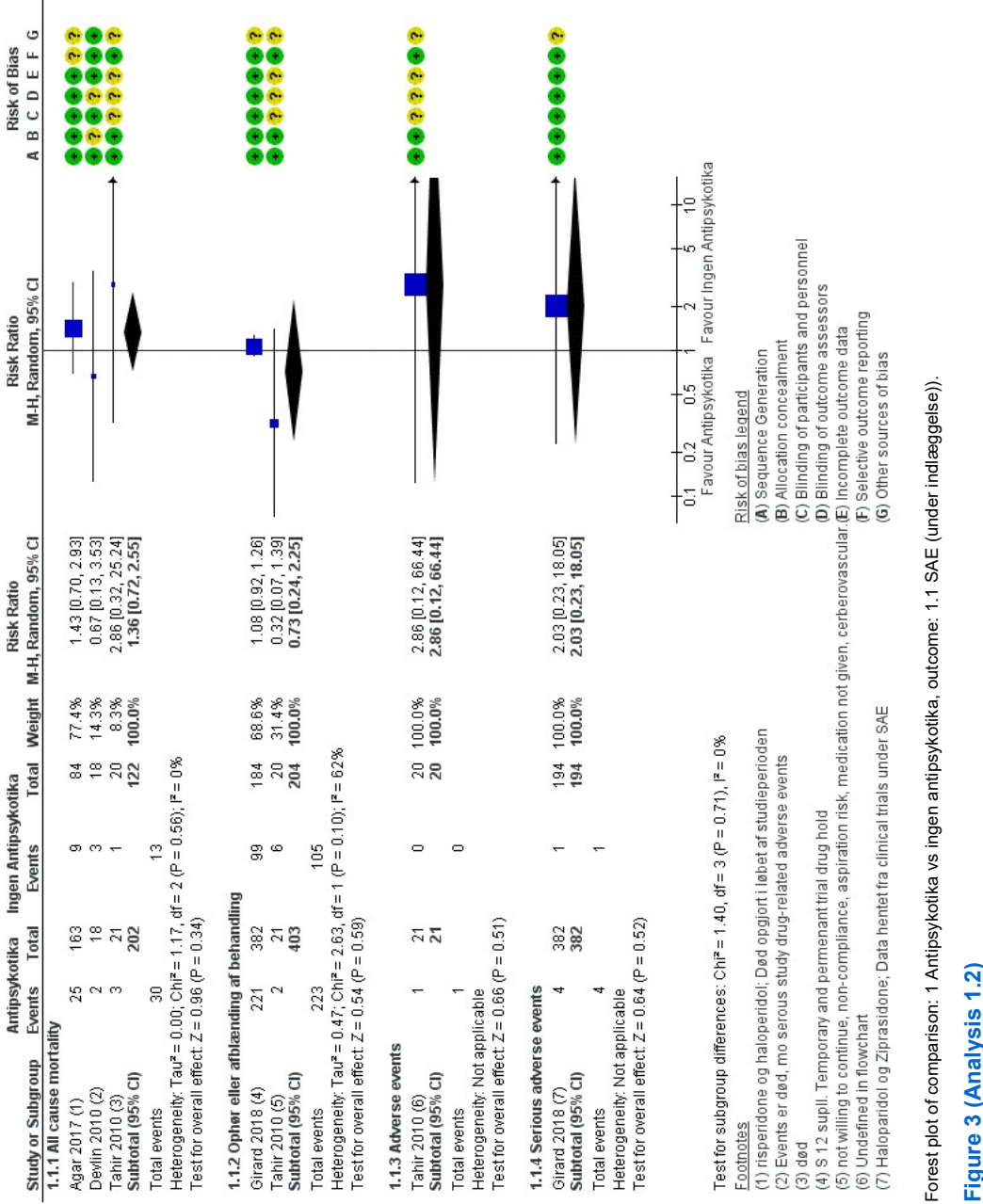
Figures

Figure 1

	Sequence Generation	Allocation concealment	Blinding of participants and personnel	Blinding of outcome assessors	Incomplete outcome data	Selective outcome reporting	Other sources of bias
Agar 2017	+	+	+	+	+	?	?
Agar 2017 A							
Devlin 2010	+	?	+	?	+	+	+
Girard 2018	+	+	+	+	+	+	?
Tahir 2010	+	+	?	?	?	+	?

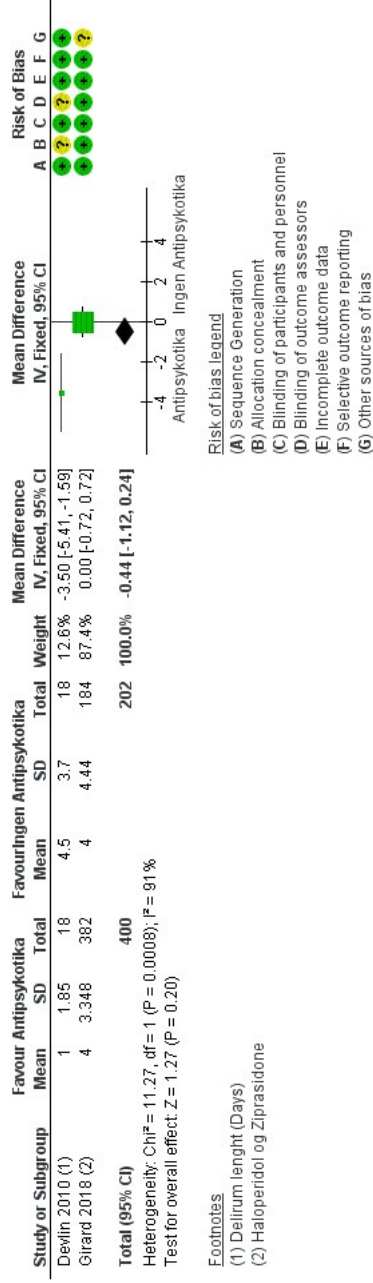
Risk of bias summary: review authors' judgements about each risk of bias item for each included study.

Figure 2 (Analysis 1.1)



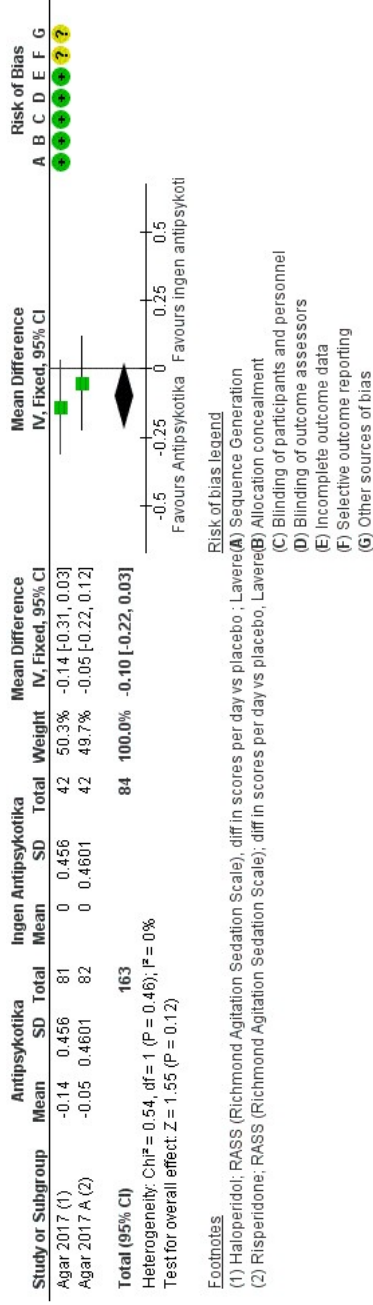
Forest plot of comparison: 1 Antipsykotika vs ingen antipsykotika, outcome: 1.1 SAE (under indlæggelse).

Figure 3 (Analysis 1.2)



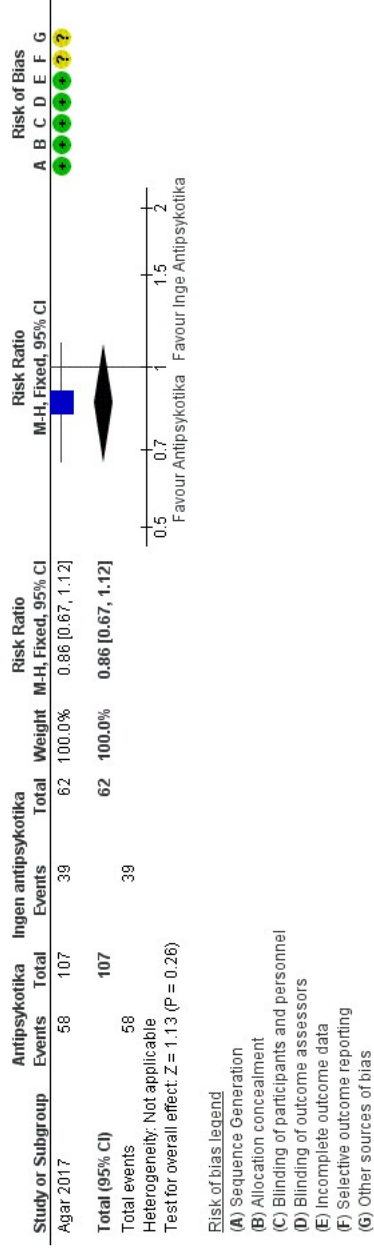
Forest plot of comparison: 1 Antipsykotika vs ingen antipsykotika, outcome: 1.2 Delirium varighed (dage).

Figure 4 (Analysis 1.3)



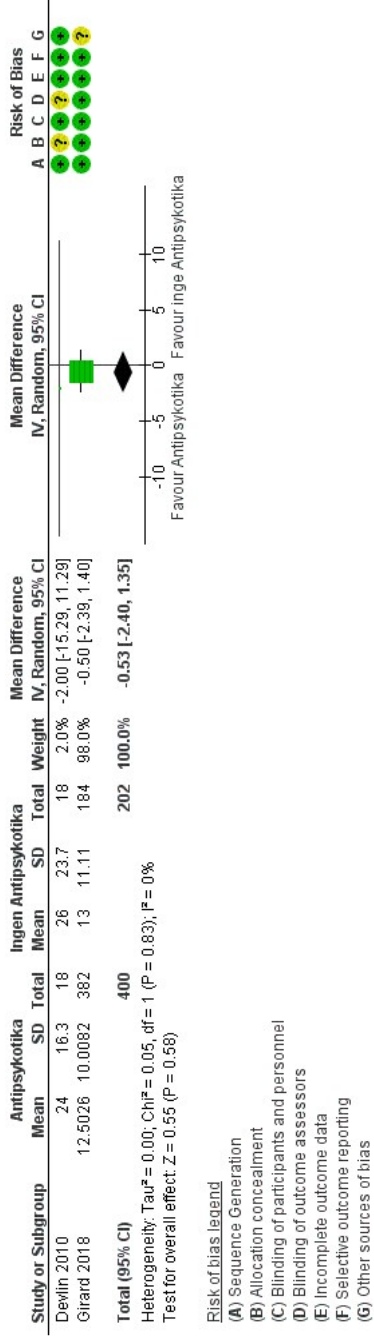
Forest plot of comparison: 1 Antipsykotika vs ingen antipsykotika, outcome: 1.3 Uro/restlessness (under indlæggelse).

Figure 5 (Analysis 1.4)



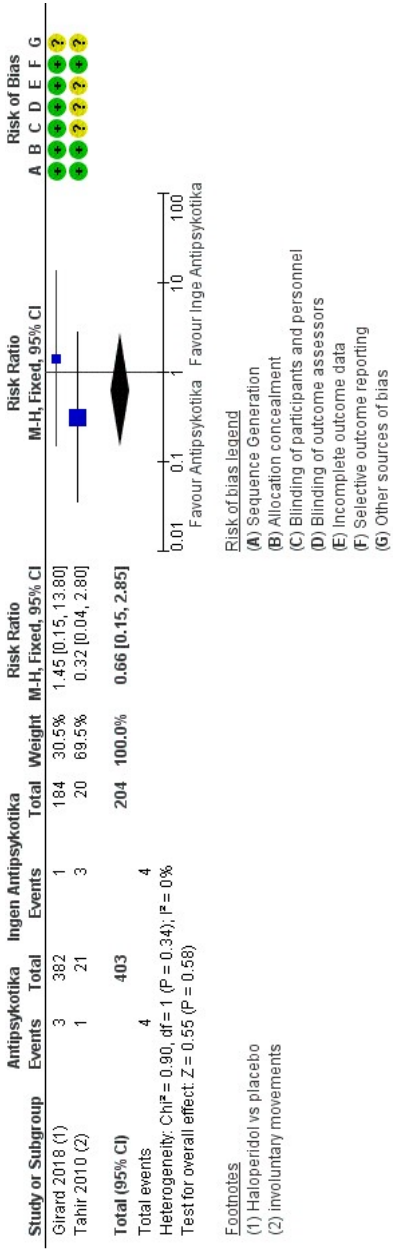
Forest plot of comparison: 1 Antipsykotika vs ingen antipsykotika, outcome: 1.4 Uro - Antal personer der får det bedre (RASS score på 0).

Figure 6 (Analysis 1.5)



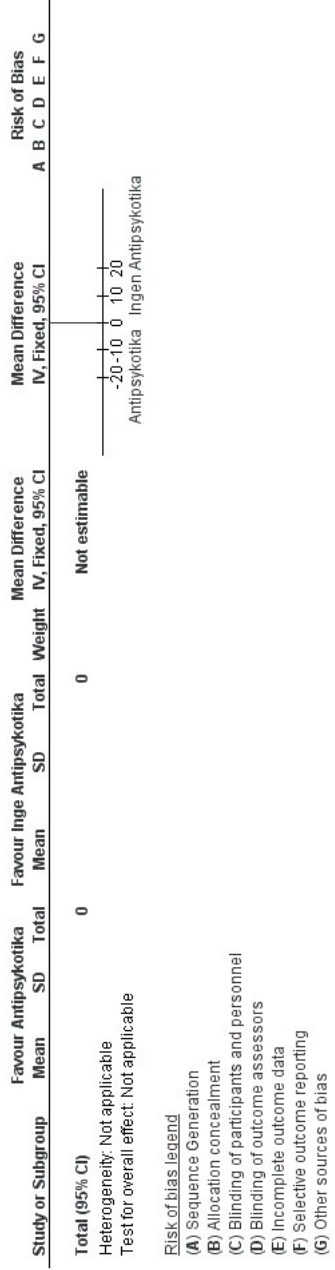
Forest plot of comparison: 1 Antipsykotika vs ingen antipsykotika, outcome: 1.5 Duration of hospitalization, days.

Figure 8 (Analysis 1.10)



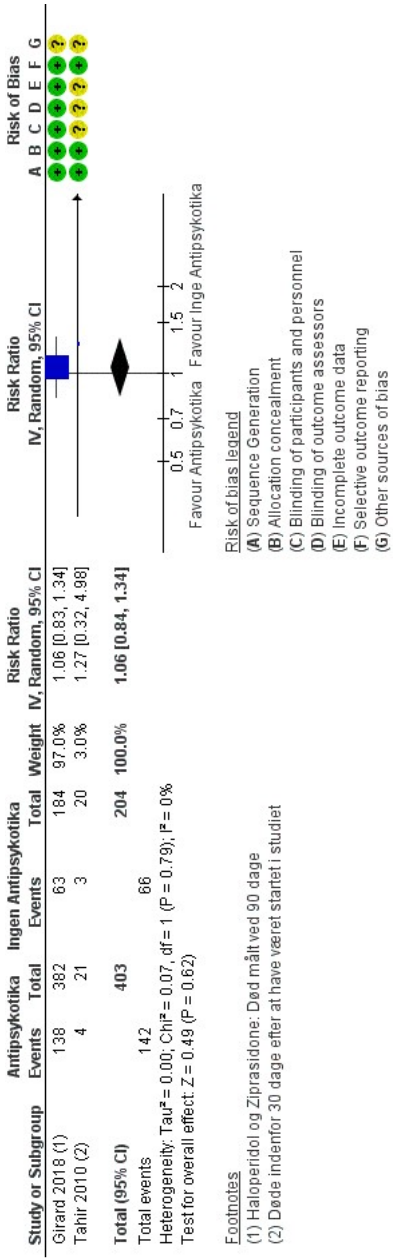
Forest plot of comparison: 1 Antipsykotika vs ingen antipsykotika, outcome: 1.10 Ekstrapyramidale bivirkninger (under indlæggelse)_RR.

Figure 10 (Analysis 1.12)



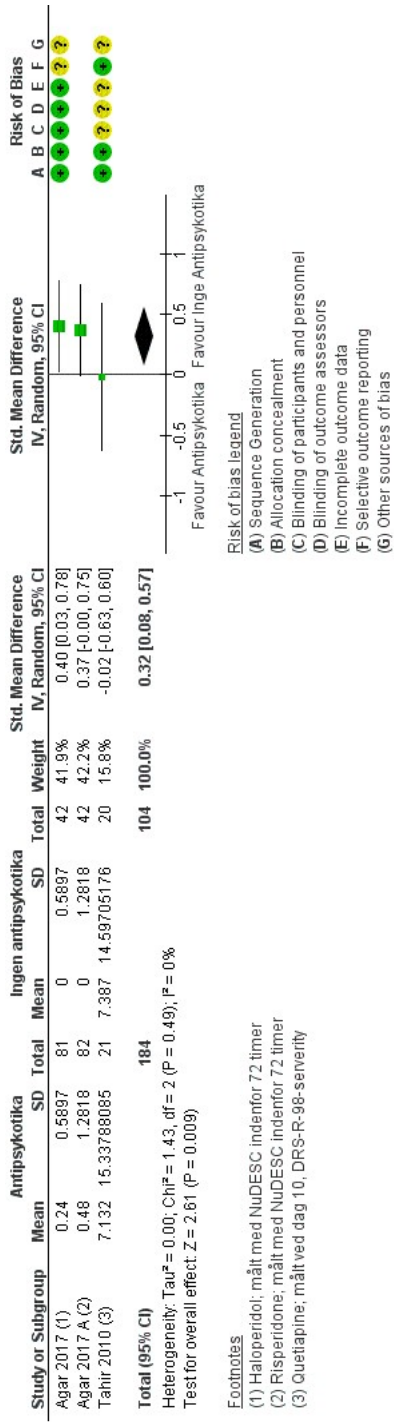
Forest plot of comparison: 1 Antipsykotika vs ingen antipsykotika, outcome: 1.12 Kognitiv funktion (min 3-6 mdr. efter udskrivelse).

Figure 11 (Analysis 1.13)



Forest plot of comparison: 1 Antipsykotika vs ingen antipsykotika, outcome: 1.13 Død/mortality (Op til 6 mdr. efter udskrivelse).

Figure 12 (Analysis 1.14)



Forest plot of comparison: 1 Antipsykotika vs ingen antipsykotika, outcome: 1.14 Delirium severity (ved udskrivelse).