

NKR 50 Forebyggelse af fald hos ældre - seponering

Review information

Authors

Sundhedsstyrelsen¹

¹[Empty affiliation]

Citation example: S. NKR 50 Forebyggelse af fald hos ældre - seponering. Cochrane Database of Systematic Reviews [Year], Issue [Issue].

Characteristics of studies

Characteristics of included studies

Campbell 1999

<p>Methods</p>	<p>Study design: Randomized controlled trial with a two by two factorial design.</p> <p>Study grouping: Parallel group</p> <p>Participants were randomized to one of four groups: (1) gradual psychotropic medication withdrawal over a 14-week period plus a home-based exercise program; (2) psychotropic medication withdrawal only, no exercise program; (3) no change in psychotropic medication plus the exercise program; (4) no change in psychotropic medication, no exercise program.</p>
<p>Participants</p>	<p>Baseline Characteristics</p> <ul style="list-style-type: none"> ● Mean age in the groups from 73 to 76 years ● Percent women in the groups from 71 to 79 ● Mean total number of medications in the groups from 5 to 6.5 ● Fall in previous year in the groups from 8 to 54 <p>Included criteria: Women and men aged 65 years and older who were currently taking a benzodiazepine, any other hypnotic, or any antidepressant or major tranquilizer were identified from the computerized registers of 17 general practice groups.</p> <p>Excluded criteria: The mental status questionnaire : score of <7 of 10</p>

<p>Interventions</p>	<p>Intervention Characteristics</p> <p>Intervention</p> <ul style="list-style-type: none"> ● <i>Description:</i> Psychotropic medication withdrawal and inert substance ● <i>Duration:</i> 14 weeks (+30 weeks inert substance) ● <i>Dose:</i> 80% of the original dose after 2 weeks, 60% after 5 weeks, 40% after 8 weeks, 20% after 11 weeks and after 14 weeks, study capsules, containing inert substance ● <i>Manual:</i> Not reported <p>Control</p> <ul style="list-style-type: none"> ● <i>Description:</i> No change in psychotropic medication ● <i>Duration:</i> 44 weeks ● <i>Dose:</i> Original medication ● <i>Manual:</i> Not reported
<p>Outcomes</p>	<p><i>Fald (med eller uden bevidsthedstab), 1 år efter afsluttet intervention</i></p> <ul style="list-style-type: none"> ● Reporting: Not reported <p><i>Fald (med eller uden bevidsthedstab) over intervention perioden</i></p> <ul style="list-style-type: none"> ● Outcome type: Continuous ● Reporting: Fully reported ● Scale: No. of falls ● Unit of measure: Falls ● Direction: Lower is better ● Data value: Endpoint <p><i>Antal af personer som falder (med eller uden bevidsthedstab) over intervention perioden</i></p> <ul style="list-style-type: none"> ● Outcome type: Binary ● Data value: Endpoint <p><i>Antal af personer som falder (med eller uden bevidsthedstab), 1 år efter afsluttet intervention</i></p> <ul style="list-style-type: none"> ● Reporting: Not reported <p><i>Fald med fraktur (major injury), 1 år efter afsluttet intervention</i></p> <ul style="list-style-type: none"> ● Reporting: Not reported <p><i>Svimmelhed (DHI, VSS, VRBQ), 1 år efter afsluttet intervention</i></p>

	<ul style="list-style-type: none"> ● Reporting: Not reported <p><i>Livskvalitet, 1 år efter afsluttet intervention</i></p> <ul style="list-style-type: none"> ● Reporting: Not reported <p><i>Indlæggelser, 1 år efter afsluttet intervention</i></p> <ul style="list-style-type: none"> ● Reporting: Not reported <p><i>Død, 1 år efter afsluttet intervention</i></p> <ul style="list-style-type: none"> ● Reporting: Not reported <p><i>Angst/depression/søvnløshed (spørgeskema), 1 år efter afsluttet intervention</i></p> <ul style="list-style-type: none"> ● Reporting: Not reported
<p>Identification</p>	<p>Sponsorship source: This work was funded by Accident Rehabilitation and Compensation Insurance Corporation of New Zealand (ACC). DMB was sponsored by the Department of Veterans Affairs, USA.</p> <p>Country: New Zealand</p> <p>Setting: General practice</p> <p>Comments: none</p> <p>Authors name: A. John Campbell</p> <p>Institution: Faculty of Medicine, Otago Medical School</p> <p>Email: Not reported</p> <p>Address: PO Box 913, Dunedin, New Zealand</p>
<p>Notes</p>	<p><i>NKR 50 Fald on 16/10/2017 18:42</i></p> <p>Outcomes</p> <p>Outcome måles over interventionsperioden, dvs 14 ugers nedtrapning af benzodiazepiner og derefter 30 ugers placebo. Kontrolgruppen: 44 uger normal dosis benzodiazepiner.</p>

Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Low risk	Quote: "The group allocation schedule was developed by a statistician using computer-generated random numbers."
Allocation concealment (selection bias)	Low risk	Quote: "Exercise group assignment was made by telephone contact to an independent person off site who held the exercise group allocation list only. Only the pharmacist, based in a local pharmacy, held the medication group allocation list."
Blinding of participants and personnel (performance bias)	Low risk	Quote: "Drug group allocation was double-blinded and not broken until each participant withdrew from or completed the study. The investigator confirming fall events was blind to group allocation."
Blinding of outcome assessment (detection bias)	Low risk	Quote: "The investigator confirming fall events was blind to group allocation."
Incomplete outcome data (attrition bias)	High risk	Judgement Comment: 93 people were randomised, 72 had falls monitored for 44 weeks.
Selective reporting (reporting bias)	Low risk	No apparent selective reporting
Other bias	Low risk	No apparent other biases

Footnotes

Characteristics of excluded studies

Tsunoda 2010

Reason for exclusion	Wrong study design
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vanderVelde 2007

Reason for exclusion	Wrong patient population
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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****Included studies*****Campbell 1999***

Campbell, A. J.; Robertson, M. C.; Gardner, M. M.; Norton, R. N.; Buchner, D. M.. Psychotropic medication withdrawal and a home-based exercise program to prevent falls: a randomized, controlled trial. *Journal of the American Geriatrics Society* 1999;47(7):850-853. [DOI:]

Excluded studies***Tsunoda 2010***

Tsunoda, K.; Uchida, H.; Suzuki, T.; Watanabe, K.; Yamashima, T.; Kashima, H.. Effects of discontinuing benzodiazepine-derivative hypnotics on postural sway and cognitive functions in the elderly. *International journal of geriatric psychiatry* 2010;25(12):1259-1265. [DOI: 10.1002/gps.2465 [doi]]

vanderVelde 2007

van der Velde, N.; van den Meiracker, A. H.; Pols, H. A.; Stricker, B. H.; van der Cammen, T. J.. Withdrawal of fall-risk-increasing drugs in older persons: effect on tilt-table test outcomes. *Journal of the American Geriatrics Society* 2007;55(5):734-739. [DOI: JGS1137 [pii]]

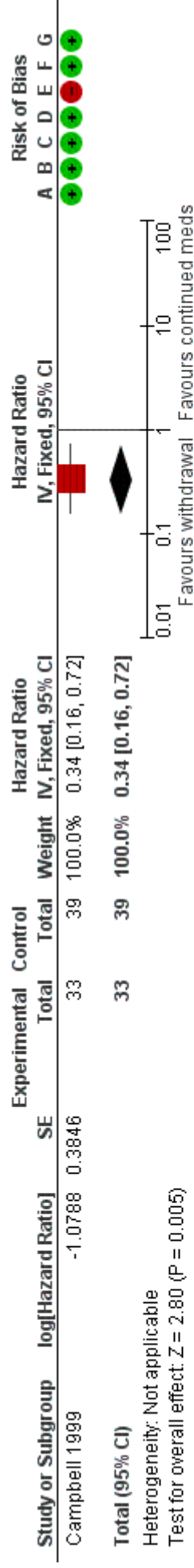
Studies awaiting classification**Ongoing studies****Other references****Additional references****Other published versions of this review****Data and analyses****1 Intervention vs Control**

Outcome or Subgroup	Studies	Participants	Statistical Method	Effect Estimate
1.1 Fald (med eller uden bevidsthedstab) 1 år efter afsluttet intervention	0	0	Odds Ratio (M-H, Fixed, 95% CI)	Not estimable
1.2 Overall rate of falls during the 44 weeks of treatment	1	72	Mean Difference (IV, Fixed, 95% CI)	-0.64 [-1.21, -0.07]
1.3 Fall risk during 44 weeks of treatment	1	72	Hazard Ratio (IV, Fixed, 95% CI)	0.34 [0.16, 0.72]
1.4 Livskvalitet, 1 år efter afsluttet intervention	0	0	Mean Difference (IV, Fixed, 95% CI)	Not estimable
1.5 Indlæggelser, 1 år efter afsluttet intervention	0	0	Mean Difference (IV, Fixed, 95% CI)	Not estimable
1.6 Angst/depression/søvnløshed (spørgeskema), 1 år efter afsluttet intervention	0	0	Mean Difference (IV, Fixed, 95% CI)	Not estimable
1.7 Antal af personer som falder (med eller uden bevidsthedstab), 1 år efter afsluttet intervention	0		Risk Ratio (IV, Fixed, 95% CI)	No totals
1.8 Død, 1 år efter afsluttet intervention	0		Risk Ratio (IV, Fixed, 95% CI)	No totals

1.9 Fald med fraktur (major injury), 1 år efter afsluttet intervention	0	0	Mean Difference (IV, Fixed, 95% CI)	Not estimable
1.10 Svimmelhed (DHI, VSS, VRBQ), 1 år efter afsluttet intervention	0	0	Mean Difference (IV, Fixed, 95% CI)	Not estimable

Figures

Figure 1 (Analysis 1.3)

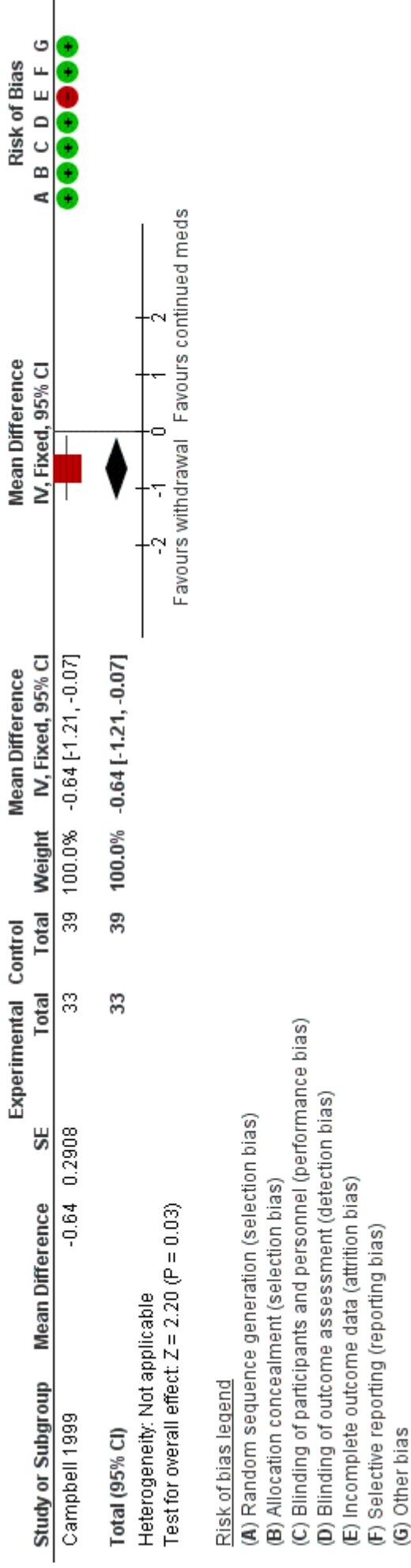


Risk of bias legend

- (A) Random sequence generation (selection bias)
- (B) Allocation concealment (selection bias)
- (C) Blinding of participants and personnel (performance bias)
- (D) Blinding of outcome assessment (detection bias)
- (E) Incomplete outcome data (attrition bias)
- (F) Selective reporting (reporting bias)
- (G) Other bias

Forest plot of comparison: 1 Intervention vs Control, outcome: 1.3 Fall risk during 44 weeks of treatment.

Figure 2 (Analysis 1.2)



Forest plot of comparison: 1 Intervention vs Control, outcome: 1.2 Overall rate of falls during the 44 weeks of treatment.

Figure 3

Random sequence generation (selection bias)	
Allocation concealment (selection bias)	
Blinding of participants and personnel (performance bias)	
Blinding of outcome assessment (detection bias)	
Incomplete outcome data (attrition bias)	
Selective reporting (reporting bias)	
Other bias	

Campbell 1999

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