

## NKR 50 fald\_PICO 1 Balancetræning

### Review information

#### Authors

Sundhedsstyrelsen<sup>1</sup>

<sup>1</sup>[Empty affiliation]

Citation example: S. NKR 50 fald\_PICO 1 Balancetræning. Cochrane Database of Systematic Reviews [Year], Issue [Issue].

### Characteristics of studies

#### Characteristics of included studies

##### Arantes 2015

<b>Methods</b>	<p><b>Study design:</b> Randomized controlled trial</p> <p><b>Study grouping:</b> Parallel group</p>
<b>Participants</b>	<p><b>Baseline Characteristics</b></p> <p>Intervention</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselinesforskelle:</i> -</li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselinesforskelle:</i> -</li> </ul> <p>Overall</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselinesforskelle:</i> -</li> </ul> <p><b>Included criteria:</b> +65 years, history of one or more falls in previous year, present risk of falling, classified as prefrail, able to walk 6 m.,</p> <p><b>Excluded criteria:</b> Presence of cognitive impairmentPresence of neurological diseaseAcute crisis related to vestibular disease in the last monthInitiation of any other intervention in the study period</p> <p><b>Pretreatment:</b> -</p>

<p><b>Interventions</b></p>	<p><b>Intervention Characteristics</b></p> <p>Intervention</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> Standing different foot position open/cloyed eyes, different surface. Tossing ball. Weight shift. Step over obstacle. One hour sessions 12 weeks. ? times a week</li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> Stretching of cervical spine, shoulder and wrist muscels, shoulder rotation and elevation, scapular retraction and upper limb elevation and relaxation</li> </ul>
<p><b>Outcomes</b></p>	<p><i>Antal af fald (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> <li>● <b>Scale:</b> 0-?</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul> <p><i>Antal af personer som falder (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> <li>● <b>Reporting:</b> Fully reported</li> <li>● <b>Scale:</b> 0-?</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul> <p><i>Fald med fraktur (major injury)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> <li>● <b>Scale:</b> 0-?</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul> <p><i>Dynamisk balance (Berg's, BESTest, DGI, POMMA)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> <li>● <b>Reporting:</b> Fully reported</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul> <p><i>Mobilitet (DEMMI, TUG, Ganghastighed)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> <li>● <b>Reporting:</b> Fully reported</li> <li>● <b>Direction:</b> Higher is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul>

	<p><i>Frygt for fald (FES-I)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : ContinuousOutcome</li> <li>● <b>Scale</b> : 16-64</li> <li>● <b>Direction</b> : Lower is better</li> <li>● <b>Data value</b> : Endpoint</li> </ul> <p><i>Dagligt aktivitetsniveau (accelerometer, PROM)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : ContinuousOutcome</li> <li>● <b>Data value</b> : Endpoint</li> </ul> <p><i>Livskvalitet</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : ContinuousOutcome</li> <li>● <b>Reporting</b> : Fully reported</li> <li>● <b>Data value</b> : Endpoint</li> </ul> <p><i>Utilisiget fald under træning</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : DichotomousOutcome</li> <li>● <b>Reporting</b> : Fully reported</li> <li>● <b>Scale</b> : 0-?</li> <li>● <b>Direction</b> : Lower is better</li> <li>● <b>Data value</b> : Endpoint</li> </ul>
<p><b>Identification</b></p>	<p><b>Sponsorship source</b>: CNPq and FAPEMIG  <b>Country</b>: Brazil  <b>Setting</b>: Hospital ambulant  <b>Comments</b>: -  <b>Authors name</b>: Paula M.M. Arantes  <b>Institution</b>: Faculdade de ciencias medicas, PT department  <b>Email</b>: paulamma@gmail.com  <b>Address</b>: -</p>
<p><b>Notes</b></p>	

### Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Low risk	Judgement Comment: "the allocation was made through a computer program"
Allocation concealment (selection bias)	Unclear risk	Judgement Comment: Ikke beskrevet
Blinding of participants and personnel (performance bias)	Unclear risk	Judgement Comment: CG udførte stretching og andet ligegyldigt, så de kunne også være blinde, men ikke beskrevet om der blev gjort noget for at holde deltagere eller instruktør blinde
Blinding of outcome assessment (detection bias)	Low risk	Judgement Comment: The assessments were performed before and immediately after the end of intervention, always by the same evaluators, and they were blinded in all the moments of the study.
Incomplete outcome data (attrition bias)	Unclear risk	n
Selective reporting (reporting bias)	Unclear risk	n
Other bias	Low risk	Judgement Comment: intet andet

**Barnett 2003**

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information, please see the following reference: Gillespie LD, Robertson MC, Gillespie WJ, Sherrington C, Ganes S, Clemson LM, Lamb SE. Interventions for preventing falls in older people in the community. Cochrane Database Syst. Rev. 2012 Sep 12;(9): CD007146.pub3.

Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Unclear risk	Gillespie et al., 2012
Allocation concealment (selection bias)	Low risk	Gillespie et al., 2012
Blinding of participants and personnel (performance bias)	Unclear risk	Gillespie et al., 2012
Blinding of outcome assessment (detection bias)	Unclear risk	Gillespie et al., 2012
Incomplete outcome data (attrition bias)	Low risk	Gillespie et al., 2012
Selective reporting (reporting bias)	Low risk	Gillespie et al., 2012
Other bias	Low risk	Gillespie et al., 2012

### Freiberger 2012

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information, please see the following reference: Kendrick D, Kumar A, Carpenter H, Zijlstra GA, Skelton DA, Cook JR, Stevens Z, Belcher CM, Haworth D, Gawler SJ, Gage H, Masud T, Bowling A, Pearl M, Morris RW, Iliffe S, Delbaere K. <a href="#">Exercise for reducing fear of falling in older people living in the community</a> . Cochrane Database Syst Rev. 2014 Nov 28;(11):CD009848. doi: 10.1002/14651858.CD009848.pub2

### Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Low risk	Kendrick et al., 2014
Allocation concealment (selection bias)	Unclear risk	Kendrick et al., 2014
Blinding of participants and personnel (performance bias)	High risk	Kendrick et al., 2014
Blinding of outcome assessment (detection bias)	High risk	Kendrick et al., 2014

Incomplete outcome data (attrition bias)	High risk	Kendrick et al., 2014
Selective reporting (reporting bias)	Unclear risk	Kendrick et al., 2014
Other bias	Unclear risk	Kendrick et al., 2014

## Halvarsson 2013

<b>Methods</b>	<b>Study design:</b> Randomized controlled trial <b>Study grouping:</b> Parallel group	
<b>Participants</b>	<b>Baseline Characteristics</b> Intervention <ul style="list-style-type: none"> <li>● <i>Procent kvinder:</i> 66%</li> </ul> Control <ul style="list-style-type: none"> <li>● <i>Procent kvinder:</i> 81%</li> </ul> Overall <ul style="list-style-type: none"> <li>● <i>Procent kvinder:</i> 71%</li> </ul> <b>Included criteria:</b> The study comprised community-dwelling healthy elderly people ( $\geq 65$ years old) with fear of falling and/or an experience of at least one fall during the previous 12 months. <b>Excluded criteria:</b> Ikke beskrevet <b>Pretreatment:</b> Procentvis flere kvinder i kontrolgruppen (ikke udregnet om signifikant)	
<b>Interventions</b>	<b>Intervention Characteristics</b> Intervention <ul style="list-style-type: none"> <li>● <i>Beskrivelse:</i> rogressive and balance-specific group-based training program that includes dual- and multi-task exercises (cognitive and/or motor). The program was performed three times a week for 12 weeks for 45 minutes/session and was lead by experienced physiotherapists.</li> </ul> Control <ul style="list-style-type: none"> <li>● <i>Beskrivelse:</i> Encouraged to live their regular life during the study period</li> </ul>	
<b>Outcomes</b>	<i>Antal af fald (uden bevidsthedstab)</i> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> </ul> <i>Antal af personer som falder (uden bevidsthedstab)</i> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> </ul>	

	<p><i>Fald med fraktur (major injury)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: DichotomousOutcome</li> </ul> <p><i>Dynamisk balance (Berg's, BESTest, DGI, POMA)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> </ul> <p><i>Mobilitet (DEMMI, TUG, Ganghastighed)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> <li>● <b>Direction</b>: Higher is better</li> <li>● <b>Data value</b>: Endpoint</li> </ul> <p><i>Frygt for fald (FES-I)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> <li>● <b>Direction</b>: Lower is better</li> <li>● <b>Data value</b>: Endpoint</li> </ul> <p><i>Dagligt aktivitetsniveau (accelerometer, PROM)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> </ul> <p><i>Livskvalitet</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> </ul>
<b>Identification</b>	<p><b>Sponsorship source</b>: -</p> <p><b>Country</b>: Sweden</p> <p><b>Setting</b>: Department of Neurobiology</p> <p><b>Comments</b>: -</p> <p><b>Authors name</b>: Alexandra Halvarsson</p> <p><b>Institution</b>: Movement Laboratory, Karolinska University Hospital, Stockholm, Sweden</p> <p><b>Email</b>: alexandra.halvarsson@ki.se</p> <p><b>Address</b>: -</p>
<b>Notes</b>	

Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Low risk	Judgement Comment: Randomization to group allocation was done in blocks, with a 2:1 ratio in favor of the intervention group, by the subjects themselves drawing a allocation slip.
Allocation concealment (selection bias)	Unclear risk	Judgement Comment: ikke beskrevet
Blinding of participants and personnel (performance bias)	High risk	Judgement Comment: Ingen blinding af inkluderede eller kontrol. Participants in the control group were offered participation in the balance training program following the study and were encouraged to live their regular life during the study period.
Blinding of outcome assessment (detection bias)	High risk	Judgement Comment: "however most of the participants did reveal which Group they belonged to at the time of the first follow-up, resulting in non-masked assessors at long-term follow-up"
Incomplete outcome data (attrition bias)	Low risk	Judgement Comment: During the follow-up period (three months to 15 months), seven subjects dropped out of the study (training group n = 4; controls n = 3) owing to hip fracture (n = 1), knee replacement (n = 1), severe body pain (n = 2), or declined participation (n = 2); one subject died
Selective reporting (reporting bias)	Low risk	Judgement Comment: samme outcomes i metode og resultater
Other bias	Low risk	Judgement Comment: intet andet

### Halvarsson 2015

<b>Methods</b>	<b>Study design:</b> Randomized controlled trial <b>Study grouping:</b> Parallel group
<b>Participants</b>	<p><b>Baseline Characteristics</b></p> <p>Intervention</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige basineforskel:</i></li> <li>● <i>Lung disease yes:</i> 0%</li> <li>● <i>Cancer yes:</i> 12%</li> <li>● <i>Experienced a fall during the last 12 months Yes:</i> 72%</li> <li>● <i>Fear of falling Not at all/a little/quite a bit/very much:</i> 0%/60%/28%/12%</li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige basineforskel:</i></li> <li>● <i>Lung disease yes:</i> 27%</li> <li>● <i>Cancer yes:</i> 27%</li> </ul>



	<p>● Experienced a fall during the last 12 months Yes: 89%</p> <p>● Fear of falling Not at all/a little/quite a bit/very much: 0%/31%/42%/27%</p> <p>Overall</p> <ul style="list-style-type: none"> <li>● Væsentlige baselíneforskelle:</li> <li>● Lung disease yes:</li> <li>● Cancer yes:</li> <li>● Experienced a fall during the last 12 months Yes:</li> <li>● Fear of falling Not at all/a little/quite a bit/very much:</li> </ul> <p><b>Included criteria:</b> age ≥ 65 years with diagnosed osteoporosis, being afraid of falling and/or having experienced at least one fall in the last 12 months, and independence in ambulation.</p> <p><b>Excluded criteria:</b> Participants were excluded if they had experienced fractures during the last year, had a Mini-Mental State Examination (MMSE) score &lt; 24, 19,20 severely decreased vision, or other diseases or con- straints that might interfere with participation in the exercise program.</p> <p><b>Pretreatment:</b> Kontrolgruppe var muligvis sygere og i højere grad bange for at falde</p>
<p><b>Interventions</b></p>	<p><b>Intervention Characteristics</b></p> <p>Intervention</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> changes in base of support during sitting and standing, reaching/lean- ing), sensory orientation (walking/standing/sitting on uneven surfaces, eyes open/closed), gait (walk- ing at different pace and/or performing dual- and multi-task – i.e., by adding cognitive or/and motor tasks to an exercise), and postural responses (reac- tions to balance loss that will occur when the bal- ance is highly challenged). Performed in groups of six to 10 participants, 45 minutes/session, and three times/week for 12 weeks.</li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> encouraged to live their regular lives and were offered the same balance training at the end of the study.</li> </ul>
<p><b>Outcomes</b></p>	<p><i>Antal af fald (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type :</b> DichotomousOutcome</li> </ul> <p><i>Antal af personer som falder (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type :</b> DichotomousOutcome</li> </ul> <p><i>Fald med fraktur (major injury)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type :</b> DichotomousOutcome</li> </ul> <p><i>Dynamisk balance (Berg's, BESTest, DGI, POMA)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type :</b> ContinuousOutcome</li> </ul>

	<ul style="list-style-type: none"> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul> <p><i>Mobilitet (DEMMI, TUG, Ganghastighed)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> <li>● <b>Direction:</b> Higher is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul> <p><i>Frygt for fald (FES-I)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul> <p><i>Dagligt aktivitetsniveau (accelerometer, PROM)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> <li>● <b>Range:</b> 1-6</li> <li>● <b>Direction:</b> Higher is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul> <p><i>Livskvalitet</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> <li>● <b>Direction:</b> Higher is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul> <p><i>Utsigtet fald under træning</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> </ul>
<b>Identification</b>	<p><b>Sponsorship source:</b> -</p> <p><b>Country:</b> Sweden</p> <p><b>Setting:</b> Karolinska Institutet, Department of Neurobiology</p> <p><b>Comments:</b> -</p> <p><b>Authors name:</b> Alexandra Halvarsson</p> <p><b>Institution:</b> Karolinska Institutet, Department of Neurobiology, Care Sciences and Society (NVS), Division of Physiotherapy, 23100, Huddinge, SE-141 83, Sweden.</p> <p><b>Email:</b> alexandra.halvarsson@ki.se</p> <p><b>Address:</b> -</p>
<b>Notes</b>	

## Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Low risk	Judgement Comment: the subjects were randomized in blocks of nine into three different groups: two intervention groups (Training, and Training+Physical activity), or a Control group, using Web-based software.
Allocation concealment (selection bias)	Unclear risk	Judgement Comment: ikke beskrevet
Blinding of participants and personnel (performance bias)	High risk	Judgement Comment: Ingen "sham" intervention, så ingen blinding. Participants in the Control group were encouraged to live their regular lives
Blinding of outcome assessment (detection bias)	High risk	Judgement Comment: the test leaders were blinded to group allocation at baseline; however, it was no longer possible after baseline testing, because some of the test leaders were also involved in the balance training
Incomplete outcome data (attrition bias)	High risk	Judgement Comment: High dropout! dropout intervention: 18/34 = 52,9% dropout control: 10/31 = 32,3%
Selective reporting (reporting bias)	Low risk	Judgement Comment: samme outcomes i methods og results
Other bias	Low risk	Judgement Comment: intet andet

**Hinman 2002**

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information, please see the following reference: Kendrick D, Kumar A, Carpenter H, Zijlstra GA, Skelton DA, Cook JR, Stevens Z, Belcher CM, Haworth D, Gawler SJ, Gage H, Masud T, Bowling A, Pearl M, Morris RW, Iliffe S, Delbaere K. <a href="#">Exercise for reducing fear of falling in older people living in the community</a> . Cochrane Database Syst Rev. 2014 Nov 28;(11):CD009848. doi: 10.1002/14651858.CD009848.pub2

## Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Unclear risk	Kendrick et al., 2014
Allocation concealment (selection bias)	Unclear risk	Kendrick et al., 2014
Blinding of participants and personnel (performance bias)	High risk	Kendrick et al., 2014
Blinding of outcome assessment (detection bias)	High risk	Kendrick et al., 2014
Incomplete outcome data (attrition bias)	Low risk	Kendrick et al., 2014
Selective reporting (reporting bias)	Unclear risk	Kendrick et al., 2014
Other bias	Unclear risk	Kendrick et al., 2014

## Hirase 2015

<b>Methods</b>	<p><b>Study design:</b> Parallel group</p> <p><b>Study grouping:</b> Parallel group</p>
<b>Participants</b>	<p><b>Baseline Characteristics</b></p> <p>Intervention</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> <p>Overall</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> <p><b>Included criteria:</b> over the age of 65 years who were living at home, able to walk with or without a cane, and had at least 4 risk factors, as identified using the questionnaire for fall assessment reported by Suzuki. The questionnaire consisted of 15 items, which included questions about fall history, walking ability, muscle power, medical disorders, medication, vision and hearing, and fear of falling</p> <p><b>Excluded criteria:</b> Participants who had participated in exercise at least 4 times a month before the intervention, and who had mus- culoskeletal, neurological, or cardiovascular disorders that may be aggravated by exercise were excluded. Participants who were unable to respond to interview questions because of cognitive impairment were also excluded.</p> <p><b>Pretreatment:</b> ingen åbenlyse</p>

<p><b>Interventions</b></p>	<p><b>Intervention Characteristics</b> Intervention</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> Standing on rubber pad: attend a 60-minute weekly exercise class for 4 months that was supplemented with daily home-based exercises. The program included 10 exercises performed in a standing position as follows: double-stance standing, one-leg standing, neck hyperextension, free-leg swinging, heel and toe raises, neck and trunk rotation, touching the floor, walking in place, sideways walking, and walking</li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> Participants in the control group participated in weekly social programs, including recreational activities, educational programs, and tea breaks. They continued their daily activities at the day centers, but performed neither balance training nor muscle strengthening exercises at the centers or in a structured setting at home.</li> </ul>
<p><b>Outcomes</b></p>	<p><i>Antal af fald (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> </ul> <p><i>Antal af personer som falder (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> </ul> <p><i>Fald med fraktur (major injury)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> </ul> <p><i>Dynamisk balance (Berg's, BESTest, DGI, POMA)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Mobilitet (DEMMI, TUG, Ganghastighed)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul> <p><i>Frygt for fald (FES-I)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Dagligt aktivitetsniveau (accelerometer, PROM)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Livskvalitet</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Utilisitet fald under træning</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> </ul>

	<ul style="list-style-type: none"> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul>
<b>Identification</b>	<p><b>Sponsorship source:</b> -  <b>Country:</b> Japan  <b>Setting:</b> 7 day centers  <b>Comments:</b> -  <b>Authors name:</b> Tatsuya Hirase  <b>Institution:</b> Department of Health Sciences, Graduate School of Biomedical Sciences, Nagasaki University,  <b>Email:</b> shigeru@nagasaki-u.ac.jp  <b>Address:</b> 1-7-1 Sakamoto, Nagasaki 852-8520, Japan</p>
<b>Notes</b>	

**Risk of bias table**

<b>Bias</b>	<b>Authors' judgement</b>	<b>Support for judgement</b>
Random sequence generation (selection bias)	Unclear risk	Judgement Comment: ikke beskrevet sequence generation randomized into 3 groups using the sealed envelope method.
Allocation concealment (selection bias)	Low risk	Judgement Comment: randomized into 3 groups using the sealed envelope method.
Blinding of participants and personnel (performance bias)	High risk	Judgement Comment: ingen "sham" trainingParticipants in the control group participated in weekly social programs, including recreational activities, educational programs, and tea breaks. They continued their daily activities at the day centers, but performed neither balance training nor muscle strengthening exercises
Blinding of outcome assessment (detection bias)	Unclear risk	Judgement Comment: Ikke beskrevet at gjort noget for at blinde assessor.Before commencing the study, the physical therapists received training from one of the authors (TH) on the assessment protocols. These assessments were self-administered with guidance from the care staff at the day centers as needed
Incomplete outcome data (attrition bias)	Low risk	Judgement Comment: withdraw intervention n=3withdraw control n=2

Selective reporting (reporting bias)	Unclear risk	Judgement Comment: ikke angivet slutværdier for FES-I kun at var ændret signifikant. Det er lummet! There were signi cant differences between the 3 groups in terms of the number of risk factors for falls and the FES score (P = 0.002 and P = 0.01, respectively)...men hvad var slut/change værdien hr Hirase???
Other bias	Low risk	Judgement Comment: intet andet

**Karinkanta 2012a**

<b>Methods</b>	<b>Study design:</b> Randomized controlled trial <b>Study grouping:</b> Parallel group
<b>Participants</b>	<b>Baseline Characteristics</b> Intervention <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> Control <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> Overall <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> <b>Included criteria:</b> <b>Excluded criteria:</b> <b>Pretreatment:</b>
<b>Interventions</b>	<b>Intervention Characteristics</b> Intervention <ul style="list-style-type: none"> <li>● <i>Intervention:</i></li> </ul> Control <ul style="list-style-type: none"> <li>● <i>Intervention:</i></li> </ul>
<b>Outcomes</b>	<i>Antal af fald (uden bevidsthedstab)</i> <ul style="list-style-type: none"> <li>● <b>Outcome type :</b> DichotomousOutcome</li> </ul> <i>Antal af personer som falder (uden bevidsthedstab)</i> <ul style="list-style-type: none"> <li>● <b>Outcome type :</b> DichotomousOutcome</li> </ul> <i>Fald med fraktur (major injury)</i> <ul style="list-style-type: none"> <li>● <b>Outcome type :</b> DichotomousOutcome</li> </ul>

	<p><i>Dynamisk balance (Berg's, BESTest, DGI, POMA)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : ContinuousOutcome</li> </ul> <p><i>Mobilitet (DEMMI, TUG, Ganghastighed)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : ContinuousOutcome</li> </ul> <p><i>Frygt for fald (FES-I)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : ContinuousOutcome</li> <li>● <b>Scale</b> : VAS 10 cm</li> <li>● <b>Direction</b> : Lower is better</li> <li>● <b>Data value</b> : Endpoint</li> </ul> <p><i>Dagligt aktivitetsniveau (accelerometer, PROM)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : ContinuousOutcome</li> </ul> <p><i>Livskvalitet</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : ContinuousOutcome</li> </ul> <p><i>Utilisitet fald under træning</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : DichotomousOutcome</li> </ul>
<p><b>Identification</b></p> <p><b>Sponsorship source:</b>  <b>Country:</b> Finland  <b>Setting:</b>  <b>Comments:</b>  <b>Authors name:</b>  <b>Institution:</b>  <b>Email:</b>  <b>Address:</b></p>	
<p><b>Notes</b></p>	

### Risk of bias table



Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Low risk	computer generated list
Allocation concealment (selection bias)	Unclear risk	ikke beskrevet
Blinding of participants and personnel (performance bias)	High risk	ingen sham intervention
Blinding of outcome assessment (detection bias)	Unclear risk	ikke beskrevet
Incomplete outcome data (attrition bias)	Low risk	under 5% drop out i intervention
Selective reporting (reporting bias)	High risk	hovedoutcomes er kun angivet for samlede to grupper (intervention og kontrol blandet) kun VAS for FoF er opdelt
Other bias	Low risk	intet åbenlyst

### Korpelainen 2006

<b>Methods</b>	<b>Study design:</b> Randomized controlled trial <b>Study grouping:</b> Parallel group
<b>Participants</b>	<b>Baseline Characteristics</b> Intervention <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> Control <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> Overall <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> <b>Included criteria:</b> <b>Excluded criteria:</b> <b>Pretreatment:</b>
<b>Interventions</b>	<b>Intervention Characteristics</b> Intervention <ul style="list-style-type: none"> <li>● <i>Intervention:</i></li> </ul>

	Control
<p><b>Outcomes</b></p>	<ul style="list-style-type: none"> <li>● <i>Intervention:</i></li> </ul> <p><i>Antal af fald (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> <li>● <b>Scale:</b> antal fald</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> <li>● <b>Notes:</b> OBS: 30 mdr</li> </ul> <p><i>Antal af personer som falder (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> </ul> <p><i>Fald med fraktur (major injury)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> <li>● <b>Notes:</b> OBS: 30 mdr</li> </ul> <p><i>Dynamisk balance (Berg's, BESTest, DGI, POMA)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Mobilitet (DEMMI, TUG, Ganghastighed)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Frygt for fald (FES-I)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Dagligt aktivitetsniveau (accelerometer, PROM)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Livskvalitet</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Utilisitet fald under træning</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> </ul>

<b>Identification</b>	<p><b>Sponsorship source:</b>  <b>Country:</b> Finland  <b>Setting:</b>  <b>Comments:</b>  <b>Authors name:</b> Rajja Korpelainen  <b>Institution:</b>  <b>Email:</b>  <b>Address:</b></p>
<b>Notes</b>	

### Risk of bias table

<b>Bias</b>	<b>Authors' judgement</b>	<b>Support for judgement</b>
Random sequence generation (selection bias)	Low risk	The women were randomly assigned to an exercise group ( n = 84) and a control group ( n = 76) using computer-generated random numbers.
Allocation concealment (selection bias)	Unclear risk	ikke beskrevet
Blinding of participants and personnel (performance bias)	High risk	ingen sham intervention i kontrol
Blinding of outcome assessment (detection bias)	Low risk	The assessors in direct contact with the participants during the study did not know to which group they had been allocated.
Incomplete outcome data (attrition bias)	Low risk	højt drop out >25%, men ITT
Selective reporting (reporting bias)	High risk	angiver: Basic mobility and dynamic balance were assessed with the Timed Up and Go (TUG) test [15]. Time spent on a 30-m walk [16] and the distance walked in 2 min[17] were measured. ...men ikke angivet i resultater
Other bias	Low risk	intet åbenlyst

**Liu-Ambrose 2004**

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information, please see the following reference: Gillespie LD, Robertson MC, Gillespie WJ, Sherrington C, Gates S, Clemson LM, Lamb SE. Interventions for preventing falls in older people in the community. Cochrane Database Syst. Rev. 2012 Sep 12;(9): CD007146.pub3.

**Risk of bias table**

<b>Bias</b>	<b>Authors' judgement</b>	<b>Support for judgement</b>
Random sequence generation (selection bias)	Unclear risk	Gillespie et al., 2012
Allocation concealment (selection bias)	Unclear risk	Gillespie et al., 2012
Blinding of participants and personnel (performance bias)	Unclear risk	Gillespie et al., 2012
Blinding of outcome assessment (detection bias)	High risk	Gillespie et al., 2012
Incomplete outcome data (attrition bias)	Low risk	Gillespie et al., 2012
Selective reporting (reporting bias)	Unclear risk	Gillespie et al., 2012
Other bias	Low risk	Gillespie et al., 2012

**Madureira 2010**

<b>Methods</b>	<b>Study design:</b> Randomized controlled trial <b>Study grouping:</b> Parallel group
<b>Participants</b>	<b>Baseline Characteristics</b> Intervention <ul style="list-style-type: none"> <li>● <i>Væsentlige baselinesforskelle:</i></li> <li>● <i>social interaction</i> : 2.69 ± 1.42</li> </ul>

	<p>Control</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> <li>● <i>social interaction</i> : 3.49 ± 1.47</li> </ul> <p>Overall</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> <li>● <i>social interaction</i> :</li> </ul> <p><b>Included criteria:</b> All selected patients had osteoporosis according to the previous definitions  <b>Excluded criteria:</b> Exclusion criteria were secondary osteoporosis, articular involvement limiting physical activity, visual deficiency, severe auditory deficiency, severe vestibular alteration defined by impaired vision, hearing and motor coordination limiting exercise, patients require walking devices or unable to walk independently more than 10m [28]; all patients underwent cardiological evaluation, ergometric test and echocardiography and those who presented absolute or relative contraindications for exercise training according to American College of Sports Medicine guidelines</p> <p><b>Pretreatment:</b> the score domain for social interaction was better in BT compared to CG</p>
<p><b>Interventions</b></p>	<p><b>Intervention Characteristics</b></p> <p>Intervention</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> 1 h of exercises once a week for a total of 40 classes, supervised by an experienced physiotherapist, namely basic warm-up and stretching exercises (15 min of warm-up and stretching exercises and 15 min of walking) and balance training (30 min of balancing in dynamic and static positions). Additionally, the program included home-based exercises (the same exercises, repeated at home at least three times a week for 30 min)</li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> without intervention. The CG-only patients received treatment for osteoporosis and instructions to prevent falls, and returned regularly (3-month follow-up) to the Osteometabolic Disease Outpatient Clinic.</li> </ul>
<p><b>Outcomes</b></p>	<p><i>Antal af fald (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : ContinuousOutcome</li> <li>● <b>Direction</b> : Lower is better</li> </ul> <p><i>Antal af personer som falder (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : DichotomousOutcome</li> </ul> <p><i>Fald med fraktur (major injury)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : DichotomousOutcome</li> </ul> <p><i>Dynamisk balance (Berg's, BESTest, DGI, POMA)</i></p>

	<ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Change from baseline</li> <li>● <b>Notes:</b> Berg (start - slut)!!</li> </ul> <p><i>Mobilitet (DEMMI, TUG, Ganghastighed)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Change from baseline</li> <li>● <b>Notes:</b> TUG Taget fra M. M. Madureira 2007</li> </ul> <p><i>Frygt for fald (FES-I)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Dagligt aktivitetsniveau (accelerometer, PROM)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Livskvalitet</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> <li>● <b>Direction:</b> Higher is better</li> <li>● <b>Data value:</b> Change from baseline</li> </ul> <p><i>Utilisitet fald under træning</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> </ul>
<p><b>Identification</b></p>	<p><b>Sponsorship source:</b></p> <p><b>Country:</b> Brazil</p> <p><b>Setting:</b> university hospital. administered in a club (Associação Atlética Acadêmica Oswaldo Cruz - AAAOC) located close to the Hospital.</p> <p><b>Comments:</b></p> <p><b>Authors name:</b> Melisa M. Madureira, Eloísa Bonfá, Liliam Takayama, Rosa M.R. Pereira</p> <p><b>Institution:</b> Rheumatology Division, Faculdade de Medicina da Universidade de São Paulo, Av. Dr. Arnaldo, 455, 3º andar, Reumatologia, sala 3105, São Paulo, SP 01246903, Brazil</p> <p><b>Email:</b></p> <p><b>Address:</b></p>
<p><b>Notes</b></p>	

## Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Unclear risk	n
Allocation concealment (selection bias)	Unclear risk	n
Blinding of participants and personnel (performance bias)	High risk	
Blinding of outcome assessment (detection bias)	Low risk	
Incomplete outcome data (attrition bias)	Low risk	
Selective reporting (reporting bias)	Low risk	
Other bias	Low risk	

**Meizer 2013**

<b>Methods</b>	<b>Study design:</b> Randomized controlled trial <b>Study grouping:</b> Parallel group
<b>Participants</b>	<p><b>Baseline Characteristics</b></p> <p>Intervention</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> <p>Overall</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> </ul> <p><b>Included criteria:</b> 65 years or older; independently ambulatory (cane acceptable; not walker); score better than 45 on the Berg Balance Scale; Mini- Mental State Examination score higher than 24</p> <p><b>Excluded criteria:</b> no severe focal muscle weakness or visual impairment; no known neurological disorders (including stroke, Parkinson's disease); no metastatic cancer; no use of medication that impairs balance or strength.</p> <p><b>Pretreatment:</b> ingen åbenlyse</p>
<b>Interventions</b>	<p><b>Intervention Characteristics</b></p> <p>Intervention</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> The intervention group received 12 weeks of balance-specific training twice a week for a total of 24 one-hour sessions. different exercise balls as tools to provide a series of progressively more difficult exercises.</li> </ul>

	<p>The highest level also included balance-specific perturbation exercises to challenge automatic postural responses not under direct voluntary control as well as dual-task exercises</p> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Intervention</i>: the reference group received no intervention</li> </ul>
<p><b>Outcomes</b></p>	<p><i>Antal af fald (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: DichotomousOutcome</li> </ul> <p><i>Antal af personer som falder (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: DichotomousOutcome</li> </ul> <p><i>Fald med fraktur (major injury)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: DichotomousOutcome</li> </ul> <p><i>Dynamisk balance (Berg's, BESTest, DGI, POMA)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> </ul> <p><i>Mobilitet (DEMMI, TUG, Ganghastighed)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> <li>● <b>Direction</b>: Lower is better</li> <li>● <b>Data value</b>: Endpoint</li> <li>● <b>Notes</b>: Voluntary step execution test, Step initiation phase (s) single-task</li> </ul> <p><i>Frygt for fald (FES-I)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> </ul> <p><i>Dagligt aktivitetsniveau (accelerometer, PROM)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> </ul> <p><i>Livskvalitet</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> </ul> <p><i>Utilisitet fald under træning</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: DichotomousOutcome</li> </ul>
<p><b>Identification</b></p>	<p><b>Sponsorship source</b>:  <b>Country</b>: USA  <b>Setting</b>: two groups at a Jewish community centre and one group at a senior housing facility, both in Brighton, MA, USA.  <b>Comments</b>:</p>



<b>Notes</b>	<p><b>Authors name:</b> Lars Oddsson  <b>Institution:</b> Sister Kenny Research Center, Sister Kenny Rehabilitation Institute, Minneapolis, MN 55407, USA.  <b>Email:</b>  <b>Address:</b></p>
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**Risk of bias table**

<b>Bias</b>	<b>Authors' judgement</b>	<b>Support for judgement</b>
Random sequence generation (selection bias)	Unclear risk	n
Allocation concealment (selection bias)	Low risk	
Blinding of participants and personnel (performance bias)	High risk	
Blinding of outcome assessment (detection bias)	Low risk	
Incomplete outcome data (attrition bias)	Low risk	
Selective reporting (reporting bias)	High risk	
Other bias	Low risk	

**Nitz 2004**

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	<p>For more information, please see the following reference:                  Gillespie LD, Robertson MC, Gillespie WJ, Sherrington C, Gates S, Clemson LM, Lamb SE. Interventions for preventing falls in older people in the community. Cochrane Database Syst. Rev. 2012 Sep 12;(9): CD007146.pub3.</p>

## Risk of bias table

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Low risk	Gillespie et al., 2012
Allocation concealment (selection bias)	Unclear risk	Gillespie et al., 2012
Blinding of participants and personnel (performance bias)	Unclear risk	Gillespie et al., 2012
Blinding of outcome assessment (detection bias)	Low risk	Gillespie et al., 2012
Incomplete outcome data (attrition bias)	High risk	Gillespie et al., 2012
Selective reporting (reporting bias)	Low risk	Gillespie et al., 2012
Other bias	Low risk	Gillespie et al., 2012

**Sakamoto 2013**

<b>Methods</b>	<b>Study design:</b> Randomized controlled trial <b>Study grouping:</b> Parallel group
<b>Participants</b>	<p><b>Baseline Characteristics</b></p> <p>Intervention</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> <li>● <i>procentdel mænd som bruger stok: 18.6%</i></li> <li>● <i>procentdel kvinder som er uafhængige for ADL: 95.7%</i></li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> <li>● <i>procentdel mænd som bruger stok: 39.7%</i></li> <li>● <i>procentdel kvinder som er uafhængige for ADL: 91.2%</i></li> </ul> <p>Overall</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskelle:</i></li> <li>● <i>procentdel mænd som bruger stok:</i></li> <li>● <i>procentdel kvinder som er uafhængige for ADL:</i></li> </ul> <p><b>Included criteria:</b> The subjects were men and women C75 years of age who lived at home and visited an orthopedic clinic or hospital for an orthopedic handicap and who could stand on one leg, both right and left, with the eyes open for 15 s</p>

	<p><b>Excluded criteria:</b> People with Parkinson's disease or other conditions that made them susceptible to falls, people with artificial joints, and people with cognitive disorders were excluded.</p> <p><b>Pretreatment:</b> flere mænd som brugte stok i kontrolgruppen og færre kvinder som var uafhængige for ADL i kontrolgruppen</p>
<p><b>Interventions</b></p>	<p><b>Intervention Characteristics</b> Intervention</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> In the DF exercise, people with poor balance held on to a table, chair, bar, or other object while standing on one leg (when they became accustomed to this, they stood on one leg without holding on to anything). If their free leg touched the ground, they lifted it once more so the total one-leg standing time was 60 s. They stood on one leg for a total of 1 min in this way 3 times a day with each leg</li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> did not do this exercise</li> </ul>
<p><b>Outcomes</b></p>	<p><i>Antal af fald (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> <li>● <b>Notes:</b> Har kun taget det opgivne for kvinder med, idet der er flest og ingen samlet værdi er angivet</li> </ul> <p><i>Antal af personer som falder (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> <li>● <b>Notes:</b> summeret for kvinder og mænd (er kun angivet seperat)</li> </ul> <p><i>Fald med fraktur (major injury)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> <li>● <b>Direction:</b> Lower is better</li> <li>● <b>Data value:</b> Endpoint</li> </ul> <p><i>Dynamisk balance (Berg's, BESTest, DGI, POMA)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Mobilitet (DEMMI, TUG, Ganghastighed)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Frygt for fald (FES-I)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul>

	<p><i>Dagligt aktivitetsniveau (accelerometer, PROM)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : ContinuousOutcome</li> </ul> <p><i>Livskvalitet</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : ContinuousOutcome</li> </ul> <p><i>Utilisitet fald under træning</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b> : DichotomousOutcome</li> <li>● <b>Direction</b> : Lower is better</li> <li>● <b>Data value</b> : Endpoint</li> </ul>
<p><b>Identification</b></p>	<p><b>Sponsorship source:</b></p> <p><b>Country:</b></p> <p><b>Setting:</b> university hospital</p> <p><b>Comments:</b></p> <p><b>Authors name:</b> Keizo Sakamoto • Naoto Endo • Atsushi Harada • Takenori Sakada • Kazuyo Tsushita • Kiyoshi Kita • Hiroshi Hagino • Akinori Sakai • Noriaki Yamamoto • Tetsunori Okamoto • Meigen Liu • Akatsuki Kokaze • Hiromichi Suzuki</p> <p><b>Institution:</b> Department of Orthopaedic Surgery, Showa University School of Medicine, 1-5-8 Hatanodai, Shinagawa-ku, Tokyo 142-8666, Japan</p> <p><b>Email:</b></p> <p><b>Address:</b></p>
<p><b>Notes</b></p>	

### Risk of bias table

<b>Bias</b>	<b>Authors' judgement</b>	<b>Support for judgement</b>
Random sequence generation (selection bias)	Low risk	
Allocation concealment (selection bias)	Low risk	
Blinding of participants and personnel (performance bias)	High risk	
Blinding of outcome assessment (detection bias)	Unclear risk	n
Incomplete outcome data (attrition bias)	Unclear risk	n
Selective reporting (reporting bias)	Unclear risk	n
Other bias	High risk	

**Shigematsu 2008**

<b>Methods</b>	<p><b>Study design:</b> Randomized controlled trial  <b>Study grouping:</b> Parallel group</p>
<b>Participants</b>	<p><b>Baseline Characteristics</b></p> <p>Intervention</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskel:</i></li> <li>● <i>selvrapporeret syn:</i> 2.77(0.8)</li> </ul> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskel:</i></li> <li>● <i>selvrapporeret syn:</i> 3.09(0.61)</li> </ul> <p>Overall</p> <ul style="list-style-type: none"> <li>● <i>Væsentlige baselineforskel:</i></li> <li>● <i>selvrapporeret syn:</i></li> </ul> <p><b>Included criteria:</b> Persons aged 65–74 years (n 14 2164) were recruited from Kawage, Mie, Japan. A letter containing information regarding the schedule of the exercise sessions was sent to 700 noninstitutionalized persons</p> <p><b>Excluded criteria:</b> The presence of severe neurological or cardiovascular diseases or mobility-limiting orthopedic conditions was considered as an exclusion criterion.</p> <p><b>Pretreatment:</b> subsignifikant dårlige selvrapporeret syn i interventionsgruppen (p=0.08) likert scale 1=poor 5=excellent</p>
<b>Interventions</b>	<p><b>Intervention Characteristics</b></p> <p>Intervention</p> <ul style="list-style-type: none"> <li>● <i>Intervention:</i> supervised group sessions twice a week over the 12-week period. SE was performed on a thin felt mat (100 3 250 cm) that was partitioned into 40 squares (25 cm each). The persons were instructed to walk (step) from one end of the mat to the other according to the step pattern provided (Figure 1). When the persons reached the end of the mat, they were instructed to return to their start positions by walking normally off the mat and then stand in line for the next stepping. The SSE included forward, backward, lateral, and oblique step patterns. After the persons became familiar with each of these step patterns, they were instructed to walk with their heels lifted, that is, on their toes, without treading on the frames of the squares. Each step pattern was repeated 4–10 times to ensure that the persons could complete the pattern, and was followed by the introduction of a more complex step pattern. In total, 196 step patterns were developed and categorized (based on progressively increasing levels of complexity) into 8 categories (Elementary, 1–2; intermediate, 1–3; and Advanced, 1–3). The persons were encouraged to concentrate in order to successfully perform each progressively more complicated step pattern. Step cadence was not determined; therefore, the persons performed the pattern</li> </ul>

	<p>at their preferred pace. Although they required 15-20 seconds to complete each step pattern initially, they eventually completed each pattern in , 15 seconds.</p> <p>Control</p> <ul style="list-style-type: none"> <li>● <i>Intervention</i>: instructed to attend an outdoor supervised walking session at the Kawage Health Center once a week for 12 weeks. These sessions were structured in a manner similar to that of the SSE sessions except that SSE was substituted with a long-distance 40- minute outdoor walking session. Furthermore, the W group was also instructed to increase the number of daily steps, particularly during long-distance walking.</li> </ul>
<p><b>Outcomes</b></p>	<p><i>Antal af fald (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: DichotomousOutcome</li> </ul> <p><i>Antal af personer som falder (uden bevidsthedstab)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: DichotomousOutcome</li> </ul> <p><i>Fald med fraktur (major injury)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: DichotomousOutcome</li> </ul> <p><i>Dynamisk balance (Berg's, BESTest, DGI, POM)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> <li>● <b>Direction</b>: Lower is better</li> <li>● <b>Data value</b>: Endpoint</li> <li>● <b>Notes</b>: Forward tandem walking, s</li> </ul> <p><i>Mobilitet (DEMMI, TUG, Ganghastighed)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> <li>● <b>Direction</b>: Lower is better</li> <li>● <b>Data value</b>: Endpoint</li> <li>● <b>Notes</b>: Walking around two cones, s</li> </ul> <p><i>Frygt for fald (FES-I)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> <li>● <b>Direction</b>: Higher is better</li> <li>● <b>Data value</b>: Endpoint</li> <li>● <b>Notes</b>: *Measured on a 3-point Likert scale: 1 ¼ very fearful, 2 ¼ fearful, and 3 ¼ not fearful.</li> </ul> <p><i>Dagligt aktivitetsniveau (accelerometer, PROM)</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type</b>: ContinuousOutcome</li> </ul> <p><i>Livskvalitet</i></p>

	<ul style="list-style-type: none"> <li>● <b>Outcome type:</b> ContinuousOutcome</li> </ul> <p><i>Utilisigtet fald under træning</i></p> <ul style="list-style-type: none"> <li>● <b>Outcome type:</b> DichotomousOutcome</li> </ul>
<b>Identification</b>	<p><b>Sponsorship source:</b>  <b>Country:</b> Japan  <b>Setting:</b> Kawage Health Center  <b>Comments:</b>  <b>Authors name:</b> Ryosuke Shigematsu,1 Tomohiro Okura,2 Masaki Nakagaichi,3 Kiyoji Tanaka,2 Tomoaki Sakai,4 Suguru Kitazumi,1 and Taina Rantanen5  <b>Institution:</b> aculty of Education, Mie University, Japan.  <b>Email:</b>  <b>Address:</b></p>
<b>Notes</b>	

### Risk of bias table

<b>Bias</b>	<b>Authors' judgement</b>	<b>Support for judgement</b>
Random sequence generation (selection bias)	Low risk	
Allocation concealment (selection bias)	Unclear risk	n
Blinding of participants and personnel (performance bias)	Low risk	
Blinding of outcome assessment (detection bias)	Low risk	
Incomplete outcome data (attrition bias)	Low risk	
Selective reporting (reporting bias)	Low risk	
Other bias	Low risk	

### Skelton 2005

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information, please see the following reference: Gillespie LD, Robertson MC, Gillespie WJ, Sherrington C, Gates S, Clemson LM, Lamb SE. Interventions for preventing falls in older people in the community. Cochrane Database Syst. Rev. 2012 Sep 12;(9): CD007146.pub3.

**Risk of bias table**

<b>Bias</b>	<b>Authors' judgement</b>	<b>Support for judgement</b>
Random sequence generation (selection bias)	Unclear risk	Gillespie et al., 2012
Allocation concealment (selection bias)	Unclear risk	Gillespie et al., 2012
Blinding of participants and personnel (performance bias)	Unclear risk	Gillespie et al., 2012
Blinding of outcome assessment (detection bias)	Low risk	Gillespie et al., 2012
Incomplete outcome data (attrition bias)	Unclear risk	Gillespie et al., 2012
Selective reporting (reporting bias)	Low risk	Gillespie et al., 2012
Other bias	Low risk	Gillespie et al., 2012

**Smulders 2010**

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	



<b>Notes</b>	For more information, please see the following reference: Gillespie LD, Robertson MC, Gillespie WJ, Sherrington C, Gates S, Clemson LM, Lamb SE. Interventions for preventing falls in older people in the community. Cochrane Database Syst. Rev. 2012 Sep 12;(9): CD007146.pub3.
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**Risk of bias table**

<b>Bias</b>	<b>Authors' judgement</b>	<b>Support for judgement</b>
Random sequence generation (selection bias)	Unclear risk	Gillespie et al., 2012
Allocation concealment (selection bias)	Unclear risk	Gillespie et al., 2012
Blinding of participants and personnel (performance bias)	High risk	Gillespie et al., 2012
Blinding of outcome assessment (detection bias)	High risk	Gillespie et al., 2012
Incomplete outcome data (attrition bias)	Low risk	Gillespie et al., 2012
Selective reporting (reporting bias)	Low risk	Gillespie et al., 2012
Other bias	Low risk	Gillespie et al., 2012

**Weerdestejn 2006**

<b>Methods</b>	
<b>Participants</b>	
<b>Interventions</b>	
<b>Outcomes</b>	
<b>Identification</b>	
<b>Notes</b>	For more information, please see the following reference: Gillespie LD, Robertson MC, Gillespie WJ, Sherrington C, Gates S, Clemson LM, Lamb SE. Interventions for preventing falls in older people in the community. Cochrane Database Syst. Rev. 2012 Sep 12;(9): CD007146.pub3.

**Risk of bias table**

Bias	Authors' judgement	Support for judgement
Random sequence generation (selection bias)	Unclear risk	Gillespie et al., 2012
Allocation concealment (selection bias)	Unclear risk	Gillespie et al., 2012
Blinding of participants and personnel (performance bias)	Unclear risk	Gillespie et al., 2012
Blinding of outcome assessment (detection bias)	High risk	Gillespie et al., 2012
Incomplete outcome data (attrition bias)	Low risk	Gillespie et al., 2012
Selective reporting (reporting bias)	Low risk	Gillespie et al., 2012
Other bias	Low risk	Gillespie et al., 2012

*Footnotes*

**Characteristics of excluded studies**

**Ashari 2016**

Reason for exclusion	Wrong intervention
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**Bateni 2012**

Reason for exclusion	Wrong intervention
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**Clemson 2012**

Reason for exclusion	Wrong intervention
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**Cornillon 2002**

Reason for exclusion	forkert sprog
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***Dunlop 2011***

Reason for exclusion	Wrong intervention
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***EI Khoury 2015***

Reason for exclusion	Wrong intervention
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***Faren 2011***

Reason for exclusion	abstract
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***Ferreira 2016***

Reason for exclusion	abstract
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***Grabiner 2012***

Reason for exclusion	Wrong dose
----------------------	------------

***Grahn 2009***

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

***Halvarsson 2011***

Reason for exclusion	duplicate study
----------------------	-----------------

***Halvarsson 2011a***

Reason for exclusion	abstract
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***Halvarsson 2015a***

Reason for exclusion	abstract
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***Jacobson 2011***

Reason for exclusion	Wrong intervention
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***Jagdhane 2016***

Reason for exclusion	Wrong dose
----------------------	------------

***Joshua 2014***

Reason for exclusion	Wrong comparator
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***Karinkanta 2012***

Reason for exclusion	Wrong intervention
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***Korpelainen 2010***

Reason for exclusion	Wrong intervention
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***Kovacs 2013***

Reason for exclusion	Wrong intervention
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***Leiros Rodriguez 2014***

Reason for exclusion	Wrong intervention
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***Lord 2003***

Reason for exclusion	Wrong intervention
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***Luukinen 2006***

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

***Luukinen 2007***

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

***Madureira 2007***

Reason for exclusion	duplicate study
----------------------	-----------------

***Madureira 2009***

Reason for exclusion	abstract
----------------------	----------

***Mansfield 2010***

Reason for exclusion	Wrong dose
----------------------	------------

***Martinez Amat 2013***

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

***Miko 2017***

Reason for exclusion	Wrong intervention
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***Ni 2014***

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

***Nicholson 2014***

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

***Olson 2011***

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

***Osmani Villasolli 2011***

Reason for exclusion	abstract
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***Pai 2014***

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

***Patru 2010***

Reason for exclusion	abstract
----------------------	----------

***Roaldsen 2014***

Reason for exclusion	Wrong outcomes
----------------------	----------------

***Sakamoto 2006***

Reason for exclusion	duplicate study
----------------------	-----------------

**Seo 2012**

Reason for exclusion	Wrong intervention
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**Sherrington 2014**

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

**Shigematsu 2008a**

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

**Shumway Cook 2007**

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

**Silsupadol 2006**

Reason for exclusion	Wrong study design
----------------------	--------------------

**Silsupadol 2009**

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

**Sohn 2015**

Reason for exclusion	Wrong intervention
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**Suzuki 2004**

Reason for exclusion	Wrong intervention
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***Thiamwong 2014***

Reason for exclusion	Wrong intervention
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***Yamada 2011***

Reason for exclusion	Wrong intervention
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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*****Arantes 2015***

Arantes P.M.M.; Dias J.M.D.; Fonseca F.F.; Oliveira A.M.B.; Oliveira M.C.; Pereira L.S.M.; Dias R.C.. Effect of a Program Based on Balance Exercises on Gait, Functional Mobility, Fear of Falling, and Falls in Prefrail Older Women: A Randomized Clinical Trial. *Topics in Geriatric Rehabilitation* 2015;31(2):113-120. [DOI: ]

***Barnett 2003***

[Empty]



**Freiberger 2012**

[Empty]

**Halvarsson 2013**

Halvarsson, Alexandra; Franzen, Erika; Faren, Elin; Olsson, Elisabeth; Oddsson, Lars; Stahle, Agneta. Long-term effects of new progressive group balance training for elderly people with increased risk of falling - a randomized controlled trial. *Clinical rehabilitation* 2013;27(5):450-8. [DOI: ]

**Halvarsson 2015**

Halvarsson, Alexandra; Franzen, Erika; Stahle, Agneta. Balance training with multi-task exercises improves fall-related self-efficacy, gait, balance performance and physical function in older adults with osteoporosis: a randomized controlled trial. *Clinical rehabilitation* 2015;29(4):365-75. [DOI: ]

**Hinman 2002**

[Empty]

**Hirase 2015**

Hirase, Tatsuya; Inokuchi, Shigeru; Matsusaka, Nobuou; Okita, Minoru. Effects of a balance training program using a foam rubber pad in community-based older adults: a randomized controlled trial. *Journal of geriatric physical therapy* (2001) 2015;38(2):62-70. [DOI: ]

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Karinkanta, Saija; Nupponen, Ritva; Heinonen, Ari; Pasanen, Matti; Sievanen, Harri; Jusi-Rasi, Kirsti; Fogelholm, Mikael; Kannus, Pekka. Effects of exercise on health-related quality of life and fear of falling in home-dwelling older women. *Journal of Aging and Physical Activity* 2012;20(2):198-214. [DOI: ]

**Korpelainen 2006**

Korpelainen, Raija; Keinanen-Kiukkaanniemi, Sirkka; Heikkinen, Jorma; Vaananen, Kalervo; Korpelainen, Juha. Effect of impact exercise on bone mineral density in elderly women with low BMD: a population-based randomized controlled 30-month intervention. *Osteoporosis international : a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA* 2006;17(1):109-18. [DOI: ]

**Liu-Ambrose 2004**

[Empty]

**Madureira 2010**

Madureira, Melissa M.; Bonfa, Eloisa; Takayama, Liliam; Pereira, Rosa M. R.. A 12-month randomized controlled trial of balance training in elderly women with osteoporosis: improvement of quality of life. *Maturitas* 2010;66(2):206-11. [DOI: ]

**Melzer 2013**

Melzer, Itshak; Oddsson, Lars le. Improving balance control and self-reported lower extremity function in community-dwelling older adults: a randomized control trial. *Clinical rehabilitation* 2013;27(3):195-206. [DOI: ]

**Nitz 2004**

*Published and unpublished data*

[Empty]

**Sakamoto 2013**

Sakamoto, Keizo; Endo, Naoto; Harada, Atsushi; Sakada, Takenori; Tsushita, Kazuyo; Kita, Kiyoshi; Hagino, Hiroshi; Sakai, Akinori; Yamamoto, Noriaki; Okamoto, Teisunori; Liu, Meigen; Kokaze, Akatsuki; Suzuki, Hiromichi. Why not use your own body weight to prevent falls? A randomized, controlled trial of balance therapy to prevent falls and fractures for elderly people who can stand on one leg for <15 s. *Journal of orthopaedic science : official journal of the Japanese Orthopaedic Association* 2013;18(1):10-20. [DOI: ]

**Shigematsu 2008**

Shigematsu, Ryosuke; Okura, Tomohiro; Nakagaichi, Masaki; Tanaka, Kiyoji; Sakai, Tomoaki; Kitazumi, Suguru; Rantanen, Taina. Square-stepping exercise and fall risk factors in older adults: a single-blind, randomized controlled trial. *The journals of gerontology. Series A, Biological sciences and medical sciences* 2008;63(1):76-82. [DOI: ]

**Skelton 2005**

[Empty]

**Smulders 2010**

[Empty]

**Weerdesteyn 2006**

*Published and unpublished data*

[Empty]

**Excluded studies****Ashari 2016**

Ashari, Asmidawati; Hamid, Tengku Aizan; Hussain, Mohd Rizal; Hill, Keith David. Effectiveness of Individualized Home-Based Exercise on Turning and Balance Performance Among Adults Older than 50 yrs: A Randomized Controlled Trial. *American journal of physical medicine & rehabilitation* 2016;95(5):355-65. [DOI: ]

**Bateni 2012**

Bateni, Hamid. Changes in balance in older adults based on use of physical therapy vs the Wii Fit gaming system: a preliminary study. *Physiotherapy* 2012;98(3): 211-6. [DOI: ]

**Clemson 2012**

Clemson L.; Fiatarone, Singh M.; Bundy A.; Cumming R.G.; Manollaras K.; O'Loughlin P.; Black D.. Integration of balance and strength training into daily life activity to reduce rate of falls in older people (the LiFE study): Randomised parallel trial. *BMJ (Online)* 2012;345(7870):no pagination. [DOI: ]

**Cornillon 2002**

Cornillon, E.; Blanchon, M. A.; Ramboatsisetraina, P.; Braize, C.; Beauchet, O.; Dubost, V.; Blanc, P.; Gonthier, R.. Effectiveness of falls prevention strategies for elderly subjects who live in the community with performance assessment of physical activities (before-after). *Annales de readaptation et de médecine physique : revue scientifique de la Société française de reéducation fonctionnelle de readaptation et de médecine physique* 2002;45(9):493-504. [DOI: S0168605402003021 [pii]]

**Dunlop 2011**

Dunlop R.A.. An inexpensive and accessible exercise regime significantly improves balance and reduces injuries in the elderly. *Focus on Alternative and Complementary Therapies* 2011;16(1):56-57. [DOI: ]

**El Khoury 2015**

El-Khoury, Fabienne; Cassou, Bernard; Latouche, Aurelien; Aegerter, Philippe; Charles, Marie-Aline; Dargent-Molina, Patricia. Effectiveness of two year balance training programme on prevention of fall induced injuries in at risk women aged 75-85 living in community: Ossebo randomised controlled trial. *BMJ (Clinical research ed.)* 2015;351(Journal Article):h3830. [DOI: ]

**Faren 2011**

Faren E.; Halvarsson A.; Olsson E.; Stahle A.. New task specific and progressive balance training program including dual/multi tasks for elderly. *Physiotherapy (United Kingdom)* 2011;97(Web Page):eS1604-eS1605. [DOI: ]

**Ferreira 2016**

Ferreira A.; Chaves P.; Simoes D.. The effect of a fall prevention exercise programme on fear of falling in the elderly. *European Geriatric Medicine* 2016;7(Web Page):S189. [DOI: ]

**Grabiner 2012**

Grabiner, Mark D.; Bareither, Mary Lou; Gatts, Strawberry; Marone, Jane; Troy, Karen L.. Task-specific training reduces trip-related fall risk in women. *Medicine and science in sports and exercise* 2012;44(12):2410-4. [DOI: ]

**Grahn 2009**

Grahn, Kronhed A.; Hallberg I.; Odqvist L.; Moller M.. Effect of training on health-related quality of life, pain and falls in osteoporotic women. *Advances in Physiotherapy* 2009;11(3):154-165. [DOI: ]

**Halvarsson 2011**

Halvarsson, Alexandra; Oddsson, Lars; Olsson, Elisabeth; Faren, Elin; Pettersson, Anna; Stahle, Agneta. Effects of new, individually adjusted, progressive balance group training for elderly people with fear of falling and tend to fall: a randomized controlled trial. *Clinical rehabilitation* 2011;25(11):1021-31. [DOI: ]

**Halvarsson 2011a**

Halvarsson A.; Olsson E.; Elin F.; Pettersson A.; Stahle A.. A new individually adjusted, progressive balance group training program for elderly with fear of falling and a tendency to fall. *Physiotherapy (United Kingdom)* 2011;97(Web Page):eS448-eS449. [DOI: ]

**Halvarsson 2015a**

Halvarsson A.; Oddsson L.; Franzen E.; Stahle A.. Long-term effects of a progressive and specific balance-training programme with multi-task exercises for older adults with osteoporosis. *Physiotherapy (United Kingdom)* 2015;101(Web Page):eS507. [DOI: ]

**Jacobson 2011**

Jacobson, Bert H.; Thompson, Brennan; Wallace, Tia; Brown, Lynn; Rial, Christina. Independent static balance training contributes to increased stability and functional capacity in community-dwelling elderly people: a randomized controlled trial. *Clinical rehabilitation* 2011;25(6):549-56. [DOI: ]

**Jagdhane 2016**

Jagdhane S.; Kanekar N.; Aruin A.S.. The effect of a four-week balance training program on anticipatory postural adjustments in older adults: A pilot feasibility study. *Current Aging Science* 2016;9(4):295-300. [DOI: ]

**Joshua 2014**

Joshua A.M.; D'Souza V.; Unnikrishnan B.; Mithra P.; Kamath A.; Acharya V.; Venugopal A.. Effectiveness of progressive resistance strength training versus traditional balance exercise in improving balance among the elderly - a randomised controlled trial. *Journal of Clinical and Diagnostic Research* 2014;8(3):98-102. [DOI: ]

**Karinkanta 2012**

Karinkanta, Saija; Nupponen, Ritva; Heinonen, Ari; Pasanen, Matti; Sievanen, Harri; Jusi-Rasi, Kirsti; Fogelholm, Mikael; Kannus, Pekka. Effects of exercise on health-related quality of life and fear of falling in home-dwelling older women. *Journal of Aging and Physical Activity* 2012;20(2):198-214. [DOI: ]

**Korpelainen 2010**

Korpelainen, Raija; Keinanen-Kiukkaanniemi, Sirkka; Nieminen, Pentti; Heikkinen, Jorma; Vaananen, Kalervo; Korpelainen, Juha. Long-term outcomes of exercise: follow-up of a randomized trial in older women with osteopenia. *Archives of Internal Medicine* 2010;170(17):1548-56. [DOI: ]

**Kovacs 2013**

Kovacs, E.; Prokai, L.; Meszaros, L.; Gondos, T.. Adapted physical activity is beneficial on balance, functional mobility, quality of life and fall risk in community-dwelling older women: a randomized single-blinded controlled trial. *European journal of physical and rehabilitation medicine* 2013;49(3):301-10. [DOI: ]

**Leiros Rodriguez 2014**

Leiros-Rodriguez, Raquel; Garcia-Soidan, Jose. Balance training in elderly women using public parks. *Journal of women & aging* 2014;26(3):207-18. [DOI: ]

**Lord 2003**

Lord, S. R.; Castell, S.; Corcoran, J.; Dayhew, J.; Matters, B.; Shan, A.; Williams, P.. The effect of group exercise on physical functioning and falls in frail older people living in retirement villages: a randomized, controlled trial. *Journal of the American Geriatrics Society* 2003;51(12):1685-1692. [DOI: 51551 [pii]]

**Luukinen 2006**

Luukinen, Heikki; Lehtola, Sari; Jokelainen, Jari; Vaananen-Sainio, Rauni; Lotvonen, Sinikka; Koistinen, Pentti. Prevention of disability by exercise among the elderly: a population-based, randomized, controlled trial. *Scandinavian journal of primary health care* 2006;24(4):199-205. [DOI: ]

**Luukinen 2007**

Luukinen, Heikki; Lehtola, Sari; Jokelainen, Jari; Vaananen-Sainio, Rauni; Lotvonen, Sinikka; Koistinen, Pentti. Pragmatic exercise-oriented prevention of falls among the elderly: a population-based, randomized, controlled trial. *Preventive medicine* 2007;44(3):265-71. [DOI: ]

**Madureira 2007**

Madureira, M. M.; Takayama, L.; Gallinaro, A. L.; Caparbo, V. F.; Costa, R. A.; Pereira, R. M. R.. Balance training program is highly effective in improving functional status and reducing the risk of falls in elderly women with osteoporosis: a randomized controlled trial. *Osteoporosis international : a journal established as result of cooperation between the European Foundation for Osteoporosis and the National Osteoporosis Foundation of the USA* 2007;18(4):419-25. [DOI: ]

**Madureira 2009**

Madureira M.M.; Pereira R.M.R.. A 12-month randomized controlled trial of balance training in elderly women with osteoporosis: Improvement of quality of life and reduction of falls. *Arthritis and Rheumatism* 2009;60(Web Page):1496. [DOI: ]

**Mansfield 2010**

Mansfield, Avril; Peters, Amy L.; Liu, Barbara A.; Maki, Brian E.. Effect of a perturbation-based balance training program on compensatory stepping and grasping reactions in older adults: a randomized controlled trial. *Physical Therapy* 2010;90(4):476-91. [DOI: ]

**Martinez Amat 2013**

Martinez-Amat, Antonio; Hita-Contreras, Fidel; Lomas-Vega, Rafael; Caballero-Martinez, Isabel; Alvarez, Pablo J.; Martinez-Lopez, Emilio. Effects of 12-week proprioception training program on postural stability, gait, and balance in older adults: a controlled clinical trial. *Journal of strength and conditioning research* 2013;27(8):2180-8. [DOI: ]

**Miko 2017**

Miko, Ibolya; Szerb, Imre; Szerb, Anna; Poor, Gyula. Effectiveness of balance training programme in reducing the frequency of falling in established osteoporotic women: a randomized controlled trial. *Clinical rehabilitation* 2017;31(2):217-224. [DOI: ]

**Ni 2014**

Ni, Meng; Mooney, Kiersten; Richards, Luca; Balachandran, Anoop; Sun, Mingwei; Harriell, Kysha; Potiaumpai, Melanie; Signorile, Joseph F.. Comparative impacts of Tai Chi, balance training, and a specially-designed yoga program on balance in older fallers. *Archives of Physical Medicine and Rehabilitation* 2014;95(9):1620-1628.e30. [DOI: ]

**Nicholson 2014**

Nicholson, Vaughan P.; McKean, Mark R.; Burkett, Brendan J.. Twelve weeks of BodyBalance training improved balance and functional task performance in middle-aged and older adults. *Clinical interventions in aging* 2014;9(Journal Article):1895-904. [DOI: ]

**Olson 2011**

Olson, Sharon L.; Chen, Shu-Shi; Wang, Ching-Yi. Effect of a home exercise program on dynamic balance in elderly with a history of falls. *Journal of Aging and Physical Activity* 2011;19(4):291-305. [DOI: ]

**Osmani Vilasolli 2011**

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**Studies awaiting classification****Ongoing studies****Other references****Additional references****Other published versions of this review**



## Data and analyses

### 1 Balancetræning vs ingen træning

Outcome or Subgroup	Studies	Participants	Statistical Method	Effect Estimate
1.1 Antal af fald (uden bevidsthedstab) EoT	2	925	Mean Difference (IV, Random, 95% CI)	0.16 [-0.37, 0.69]
1.1.1 Antal af fald (uden bevidsthedstab) under intervention	2	925	Mean Difference (IV, Random, 95% CI)	0.16 [-0.37, 0.69]
1.2 Antal af fald (uden bevidsthedstab) 8 month FU	1	63	Mean Difference (IV, Random, 95% CI)	-0.11 [-0.35, 0.13]
1.2.2 Antal af fald (uden bevidsthedstab) 8 måneder efter afsluttet intervention	1	63	Mean Difference (IV, Random, 95% CI)	-0.11 [-0.35, 0.13]
1.3 Antal af fald (uden bevidsthedstab)_rate EoT	4	342	Rate Ratio (IV, Random, 95% CI)	0.59 [0.43, 0.83]
1.3.1 Antal af fald under intervention	4	342	Rate Ratio (IV, Random, 95% CI)	0.59 [0.43, 0.83]
1.4 Antal af fald (uden bevidsthedstab)_6-12 month FU	2		Rate Ratio (IV, Random, 95% CI)	0.59 [0.41, 0.84]
1.4.2 Antal af fald 6-12 måneder efter afsluttet intervention	2		Rate Ratio (IV, Random, 95% CI)	0.59 [0.41, 0.84]
1.5 Antal personer som falder EoT	3	1043	Risk Ratio (IV, Random, 95% CI)	0.68 [0.54, 0.86]
1.5.1 Antal personer som falder under intervention	3	1043	Risk Ratio (IV, Random, 95% CI)	0.68 [0.54, 0.86]
1.6 Antal personer som falder 6-15 month FU	6		Risk Ratio (IV, Random, 95% CI)	0.86 [0.62, 1.19]
1.6.2 Antal personer som falder 6-15 måneder efter afsluttet intervention	6		Risk Ratio (IV, Random, 95% CI)	0.86 [0.62, 1.19]

1.7 Dynamisk balance (alternate step up test, modified figure eight test, Forward tandem walking)	6	399	Std. Mean Difference (IV, Random, 95% CI)	-0.18 [-0.39, 0.02]
1.7.2 Dynamisk balance EoT eller efter 6 month	6	399	Std. Mean Difference (IV, Random, 95% CI)	-0.18 [-0.39, 0.02]
1.8 Dynamisk balance CHANGE (Berg's)	1	60	Std. Mean Difference (IV, Fixed, 95% CI)	-1.12 [-1.67, -0.57]
1.8.2 Dynamisk balance,change	1	60	Std. Mean Difference (IV, Fixed, 95% CI)	-1.12 [-1.67, -0.57]
1.9 Mobilitet EoT eller efter 6 month (TUG, Ganghastighed, 50 foot walk test, step initiation phase)	11	832	Std. Mean Difference (IV, Random, 95% CI)	-0.34 [-0.52, -0.17]
1.9.2 Mobilitet (TUG, Ganghastighed, 50 foot walk test, step initiation phase), interventionsafslutning	11	832	Std. Mean Difference (IV, Random, 95% CI)	-0.34 [-0.52, -0.17]
1.10 Mobilitet change (TUG)	1	60	Std. Mean Difference (IV, Fixed, 95% CI)	-1.03 [-1.57, -0.49]
1.10.2 Mobilitet change (TUG)	1	60	Std. Mean Difference (IV, Fixed, 95% CI)	-1.03 [-1.57, -0.49]
1.11 Frygt for fald (FES-I, ABC, VAS, balance confidence) EoT	7	560	Std. Mean Difference (IV, Random, 95% CI)	-0.24 [-0.43, -0.05]
1.11.1 målt ved interventionsafslutning	7	560	Std. Mean Difference (IV, Random, 95% CI)	-0.24 [-0.43, -0.05]
1.12 Frygt for fald (FES-I, ABC, VAS, balance confidence) 12-15 month FU	3	252	Std. Mean Difference (IV, Random, 95% CI)	-0.29 [-0.56, -0.02]
1.12.2 målt 12-15 mdr efter afsluttet intervention	3	252	Std. Mean Difference (IV, Random, 95% CI)	-0.29 [-0.56, -0.02]
1.13 Frygt for fald_dicho, målt v. 6 mdr i en 12 mdr lang intervention	1	137	Odds Ratio (M-H, Fixed, 95% CI)	0.86 [0.25, 2.96]

1.14 Dagligt aktivitetsniveau EoT (physical activity scale, pedometer, Fråndin-Grimbu scale)	3		254		Std. Mean Difference (IV, Random, 95% CI)	-0.08 [-0.33, 0.17]
1.14.2 Dagligt aktivitetsniveau, EoT eller efter 6 month treatment	3		254		Std. Mean Difference (IV, Random, 95% CI)	-0.08 [-0.33, 0.17]
1.15 Dagligt aktivitetsniveau 12 month FU (pedometer)	1		82		Mean Difference (IV, Random, 95% CI)	747.00 [-581.25, 2075.25]
1.15.3 Dagligt aktivitetsniveau målt 12 måneder efter interventionsafslutning	1		82		Mean Difference (IV, Random, 95% CI)	747.00 [-581.25, 2075.25]
1.16 Utilisitet fald under træning	3		1019		Risk Ratio (IV, Random, 95% CI)	12.20 [0.68, 220.03]
1.16.1 Utilisitet fald under træning (Under træning)	3		1019		Risk Ratio (IV, Random, 95% CI)	12.20 [0.68, 220.03]
1.17 Fald med fraktur EoT	2		1015		Risk Ratio (IV, Random, 95% CI)	0.69 [0.44, 1.09]
1.17.1 Fald med fraktur (major injury) under intervention	2		1015		Risk Ratio (IV, Random, 95% CI)	0.69 [0.44, 1.09]
1.18 Fald med fraktur 12 month FU	1		92		Risk Ratio (IV, Random, 95% CI)	0.32 [0.03, 2.96]
1.18.2 Fald med fraktur (major injury) (12 måneder efter afsluttet intervention)	1		92		Risk Ratio (IV, Random, 95% CI)	0.32 [0.03, 2.96]
1.19 Livskvalitet EoT OPAQ	1		60		Mean Difference (IV, Fixed, 95% CI)	-2.73 [-3.98, -1.48]
1.19.1 Livskvalitet, interventionsafslutning	1		60		Mean Difference (IV, Fixed, 95% CI)	-2.73 [-3.98, -1.48]
1.20 Livskvalitet 12 month FU QUALEFO	1		83		Mean Difference (IV, Fixed, 95% CI)	-1.10 [-5.78, 3.58]
1.20.2 Livskvalitet, målt 12 måneder efter interventionsafslutning	1		83		Mean Difference (IV, Fixed, 95% CI)	-1.10 [-5.78, 3.58]

## Figures

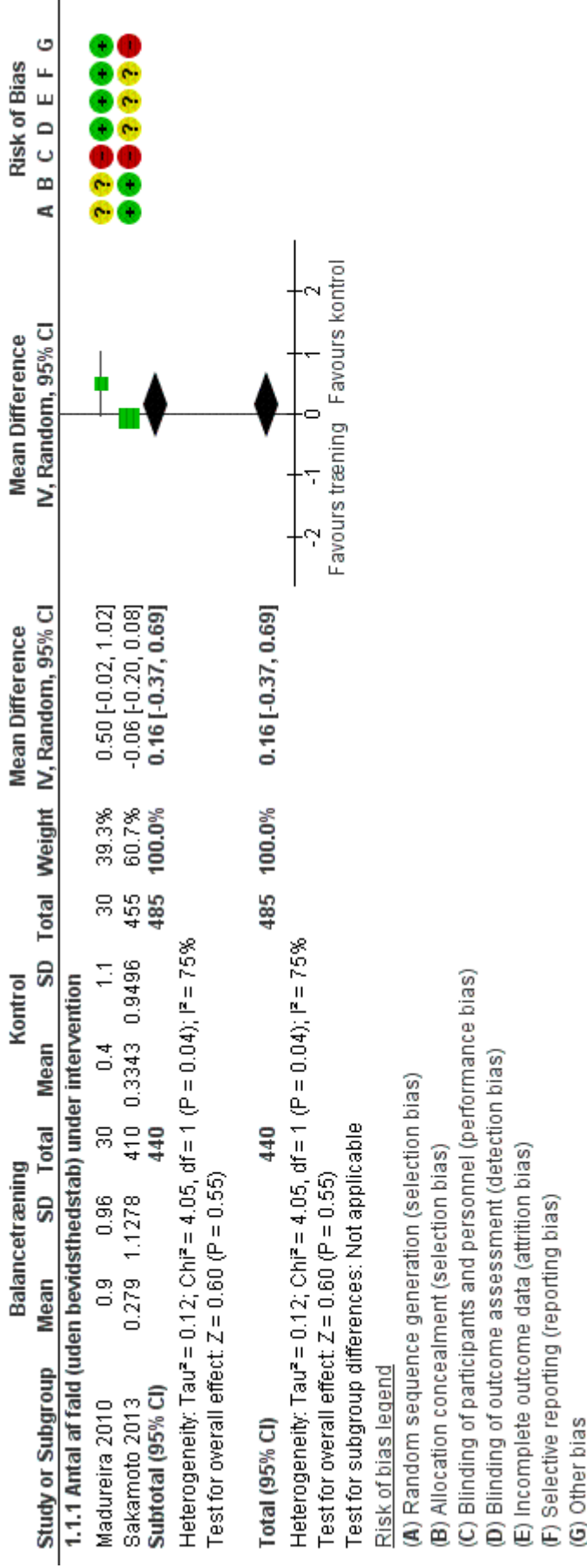
Figure 1

	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
Arantes 2015	+	?	?	+	?	?	+
Barnett 2003	?	+	?	?	+	+	+
Freiberger 2012	+	?	-	-	-	?	?
Halvarsson 2013	+	?	-	-	+	+	+
Halvarsson 2015	+	?	-	-	-	+	+
Hinman 2002	?	?	-	-	+	?	?
Hirase 2015	?	+	-	?	+	?	+
Karinkanta 2012a	+	?	-	?	+	-	+

Korpelainen 2006	+	?	-	+	+	+	-	+
Liu-Ambrose 2004	?	?	?	-	+	+	?	+
Madureira 2010	?	?	-	+	+	+	+	+
Meizer 2013	?	+	-	+	+	+	-	+
Nitz 2004	+	?	?	+	+	-	+	+
Sakamoto 2013	+	+	-	?	?	?	?	-
Shigematsu 2008	+	?	+	+	+	+	+	+
Skelton 2005	?	?	?	+	+	?	+	+
Smulders 2010	?	?	-	-	+	+	+	+
Weerdesteyn 2006	?	?	?	-	+	+	+	+

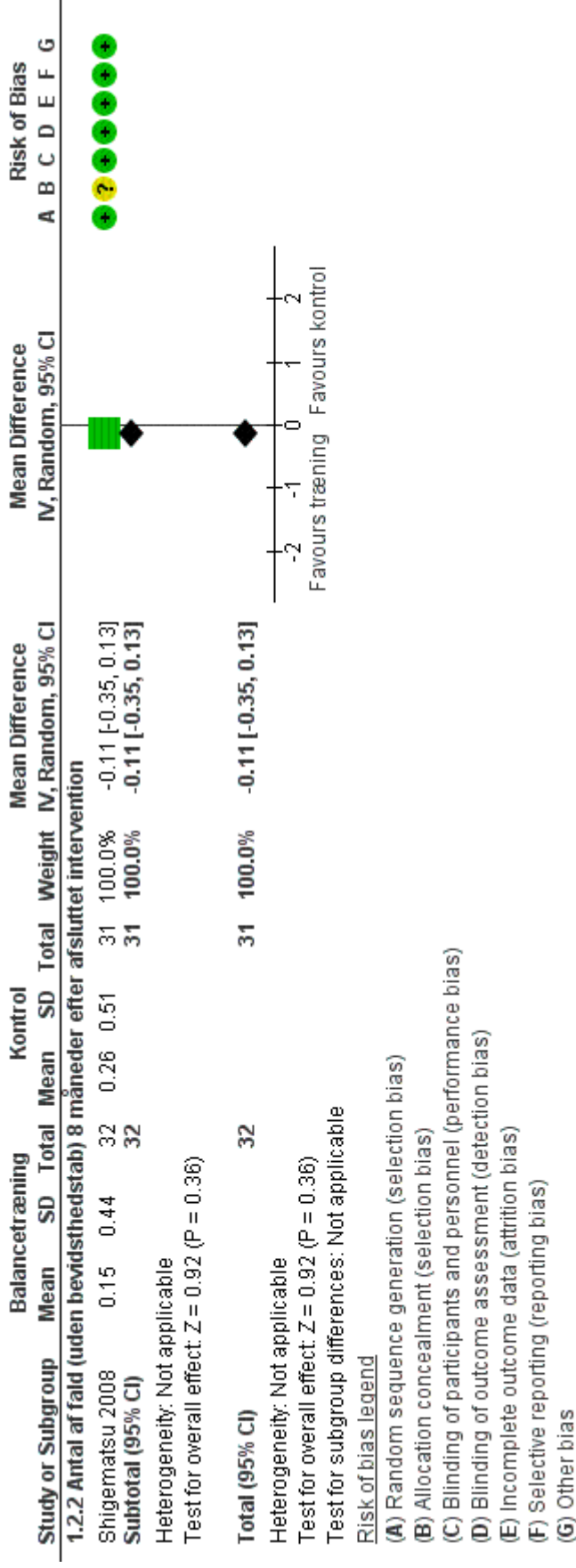
Risk of bias summary: review authors' judgements about each risk of bias item for each included study.

**Figure 2 (Analysis 1.1)**



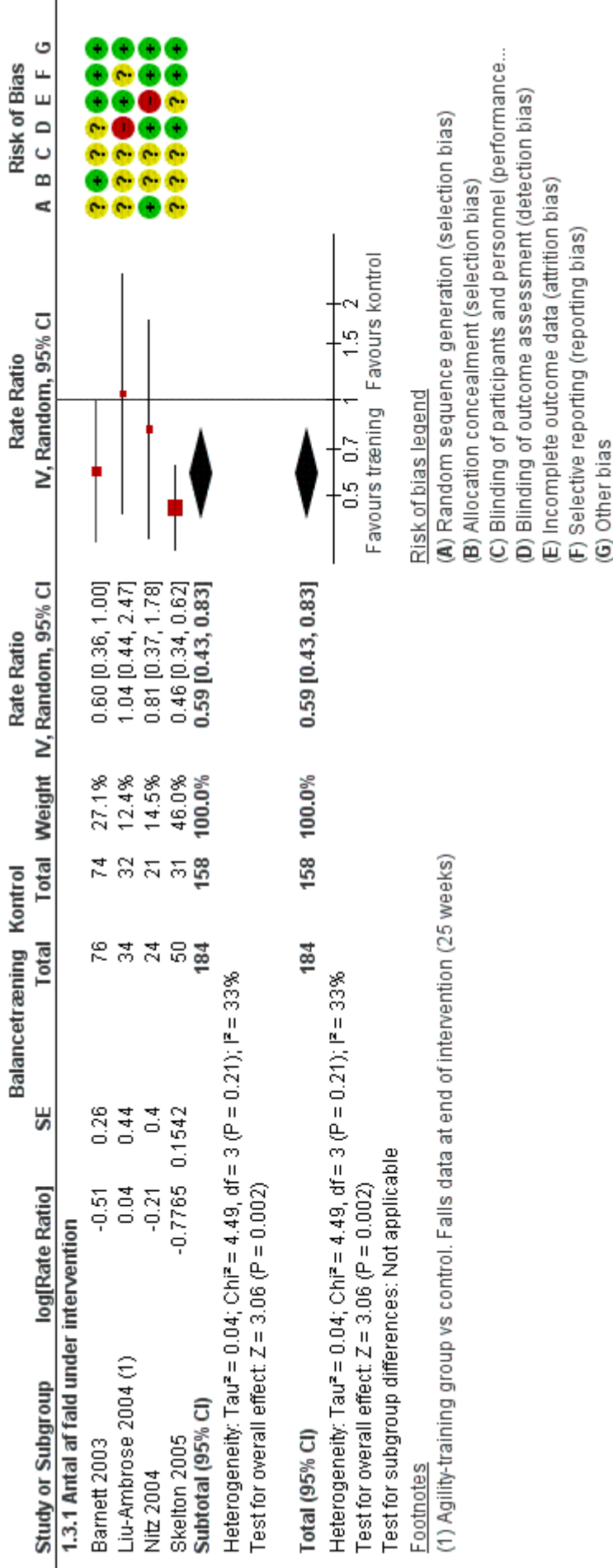
Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.1 Antal af fald (uden bevidsthedstab) EoT.

**Figure 3 (Analysis 1.2)**



Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.2 Antal af fald (uden bevidsthedstab) 8 month FU.

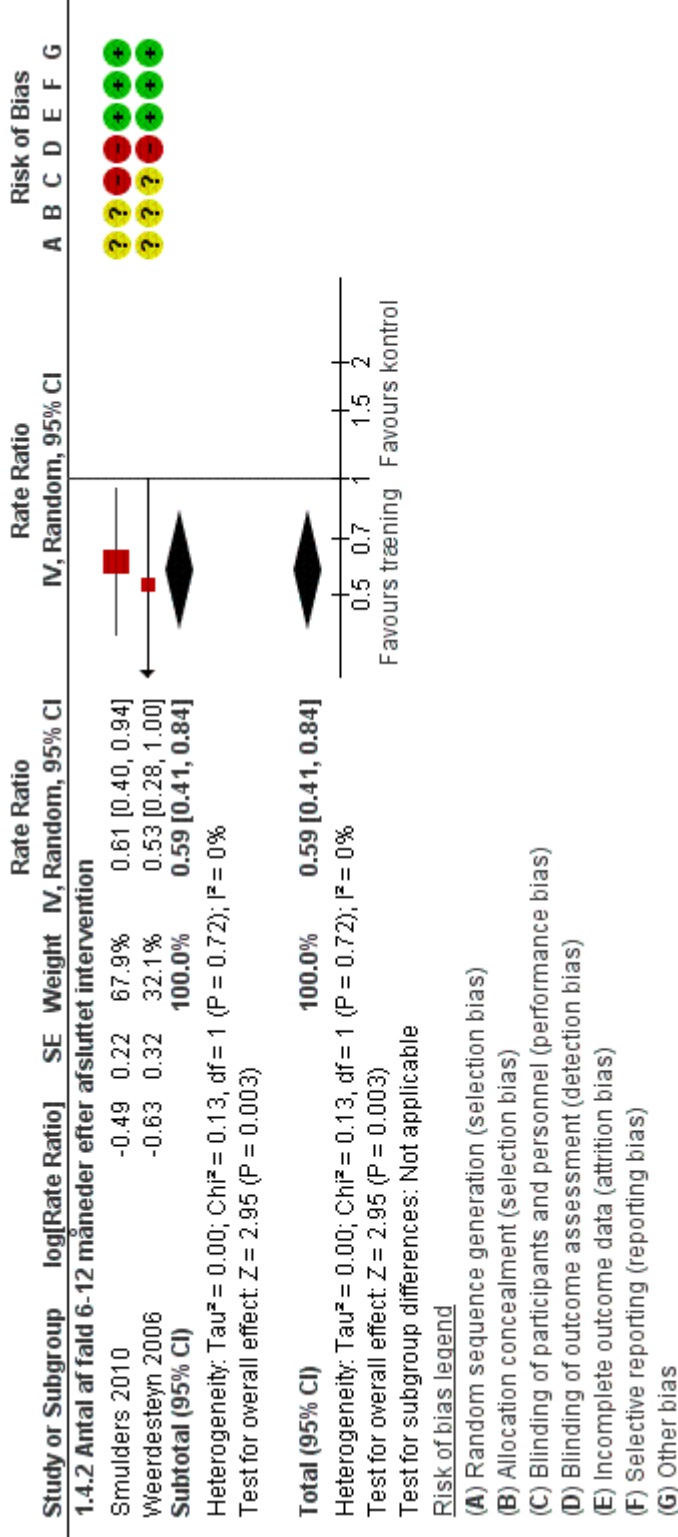
**Figure 4 (Analysis 1.3)**



Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.3 Antal af fald (uden bevidsthedstab)\_rate EoT.

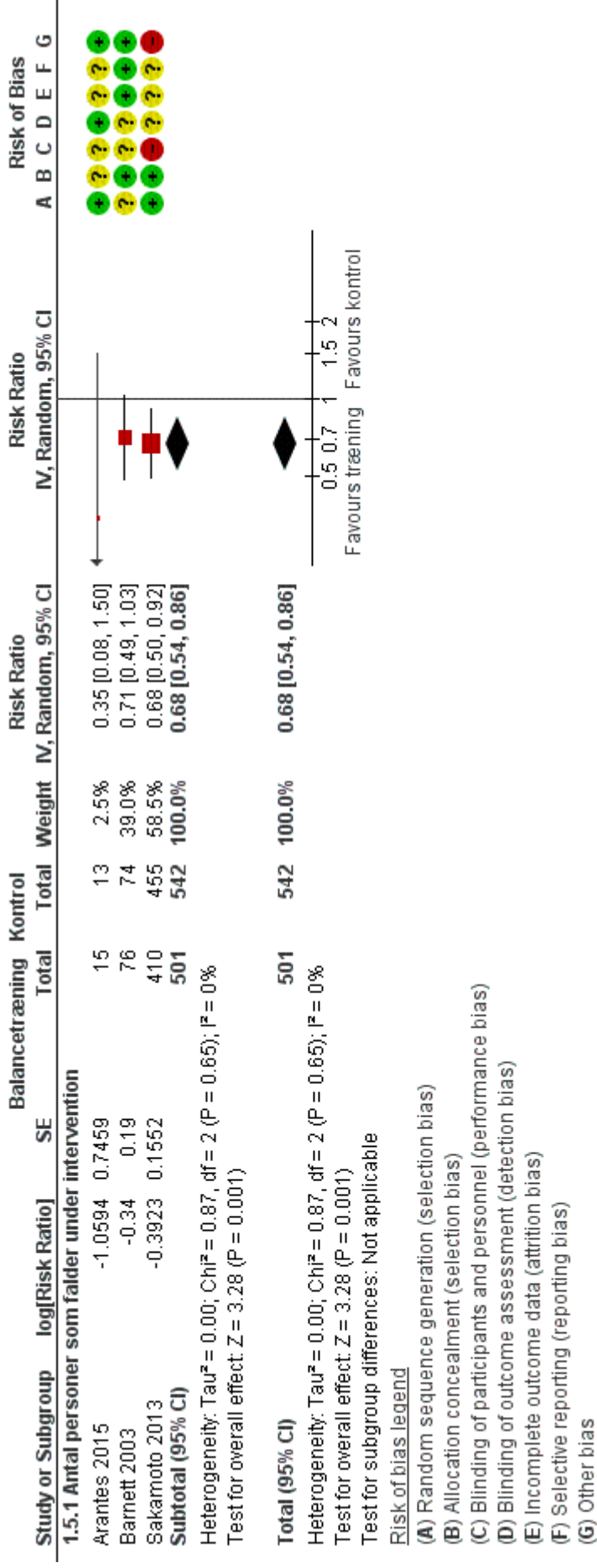
**Figure 5 (Analysis 1.4)**





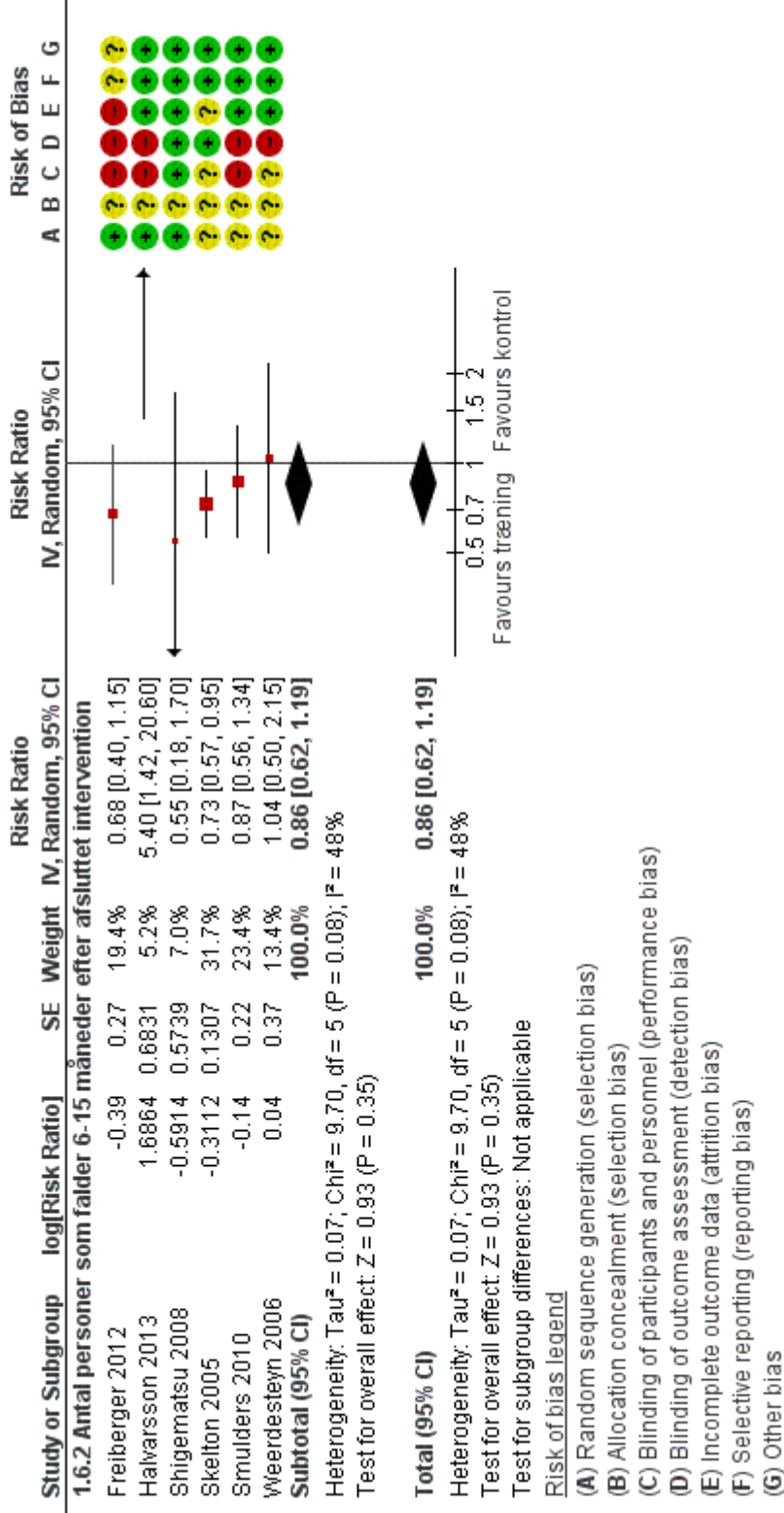
Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.4 Antal af fald (uden bevidsthedstab)\_6-12 month FU.

Figure 6 (Analysis 1.5)



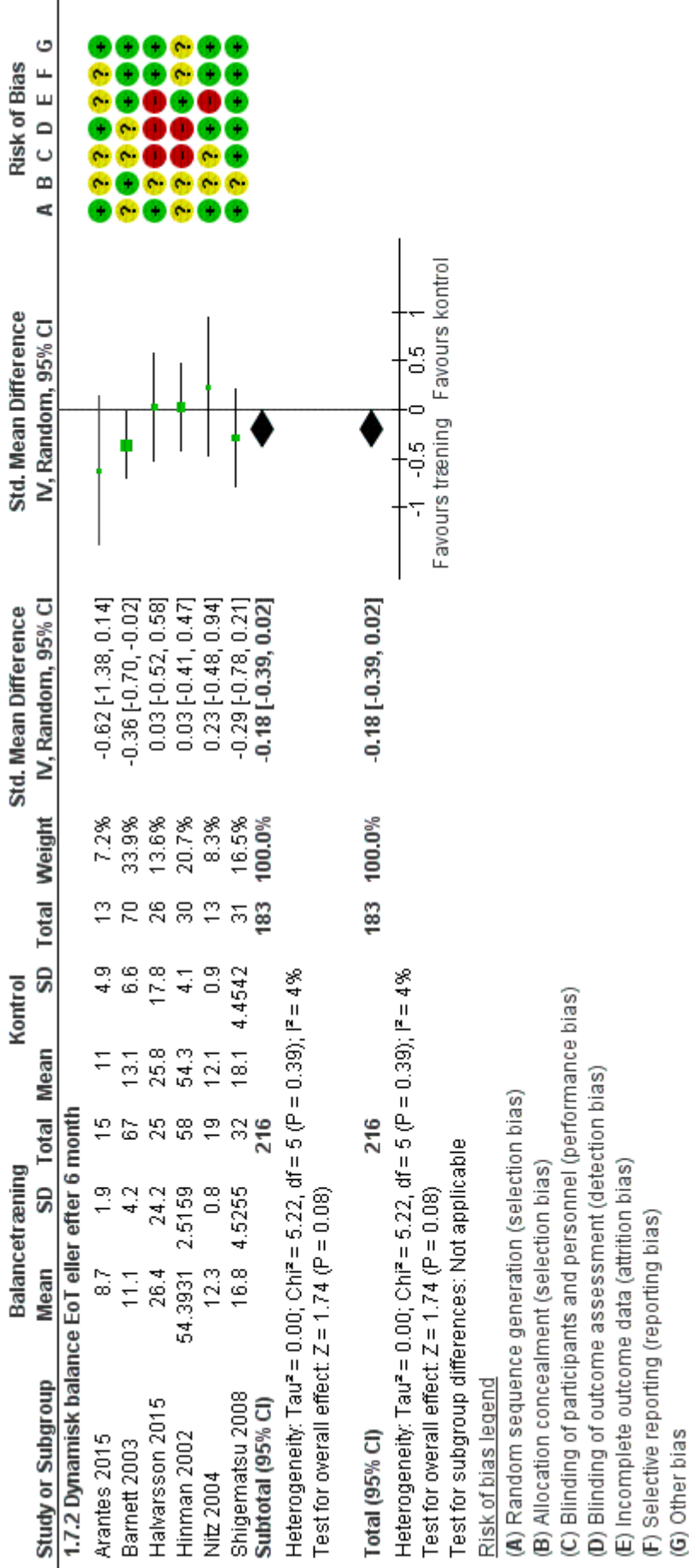
Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.5 Antal personer som falder EoT.

Figure 7 (Analysis 1.6)



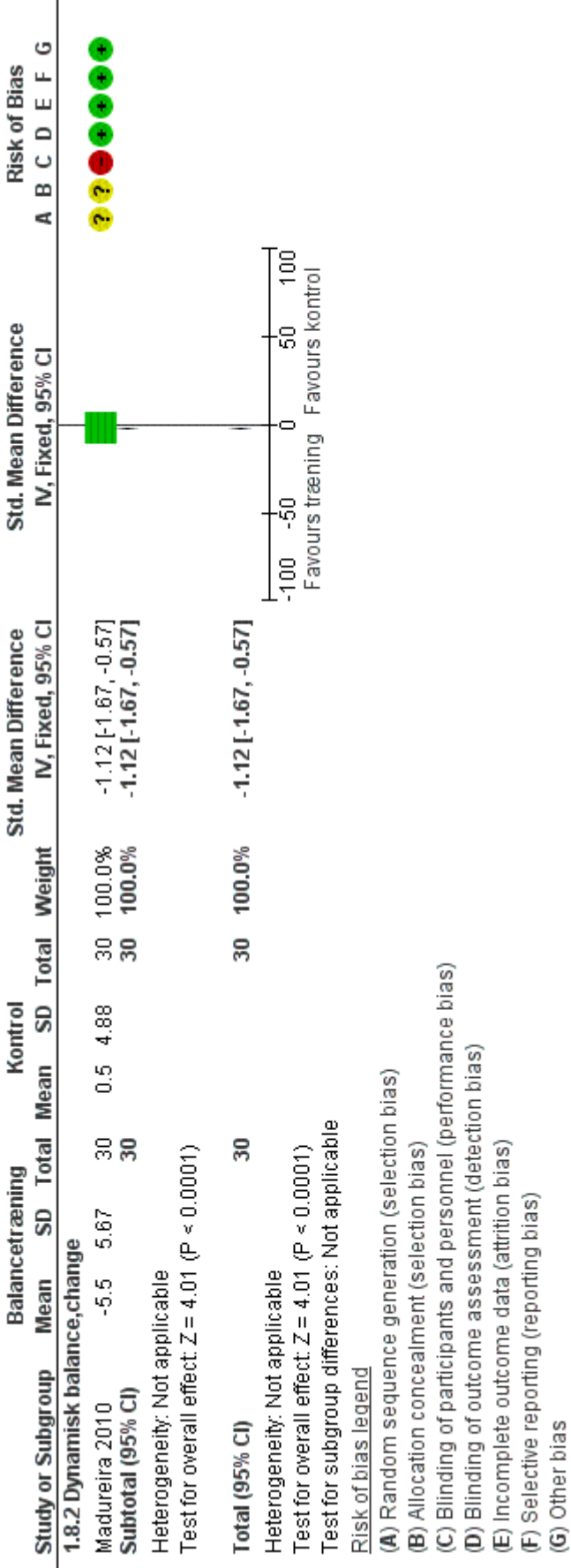
Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.6 Antal personer som falder 6-15 month FU.

Figure 8 (Analysis 1.7)



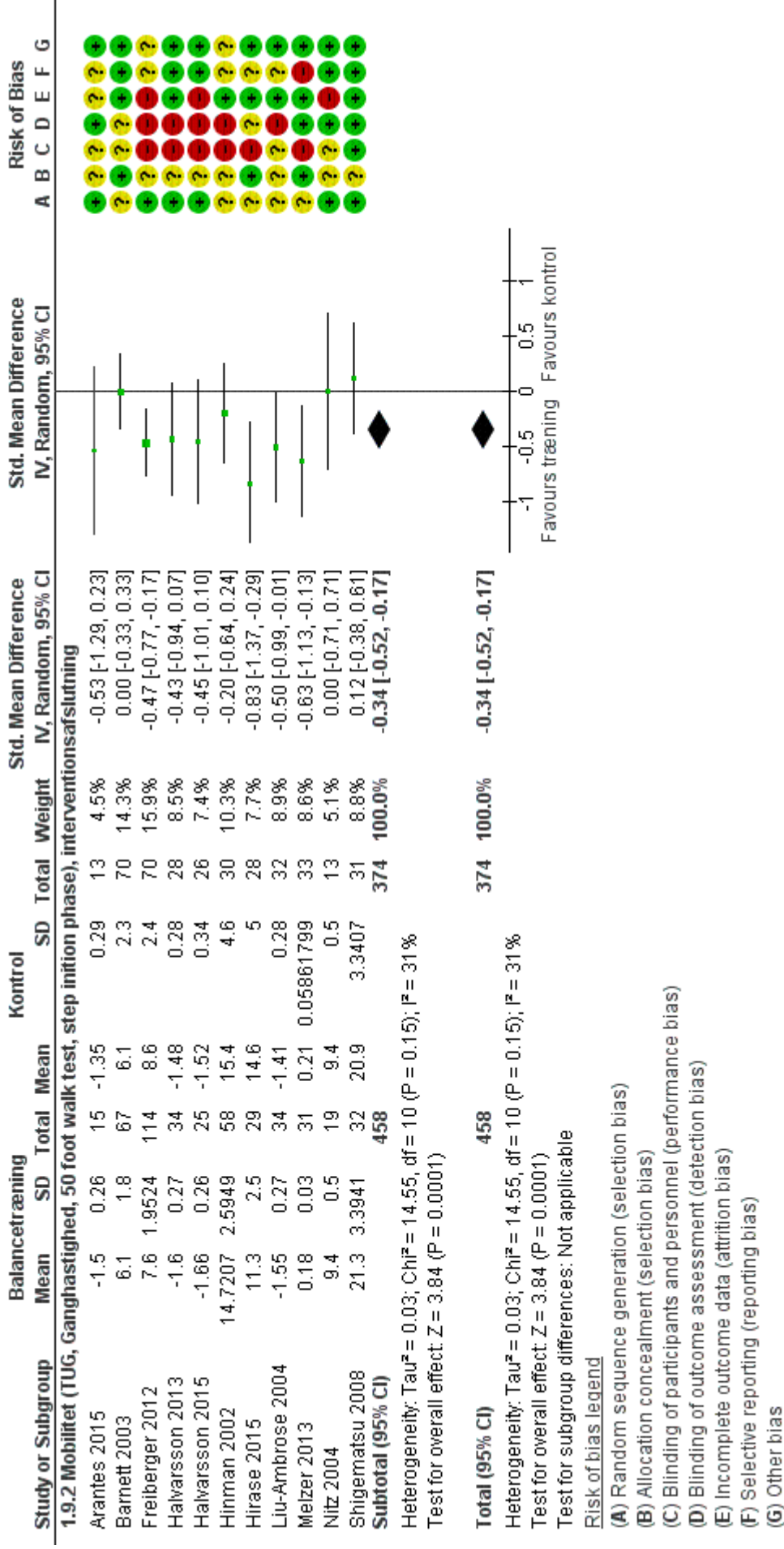
Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.7 Dynamisk balance (alternate step up test, modified figure eight test, Forward tandem walking).

Figure 9 (Analysis 1.8)



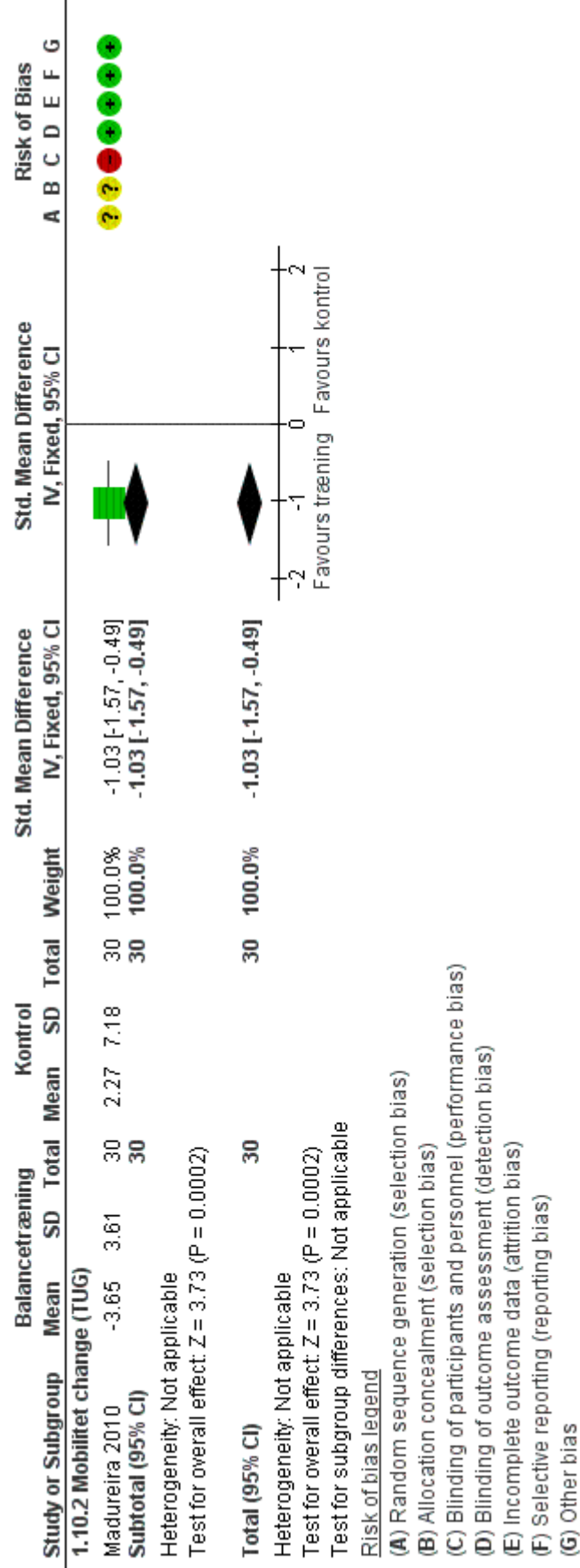
Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.8 Dynamisk balance CHANGE (Berg's).

**Figure 10 (Analysis 1.9)**



Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.9 Mobilitet EoT eller efter 6 month (TUG, Ganghastighed, 50 foot walk test, step initiation phase).

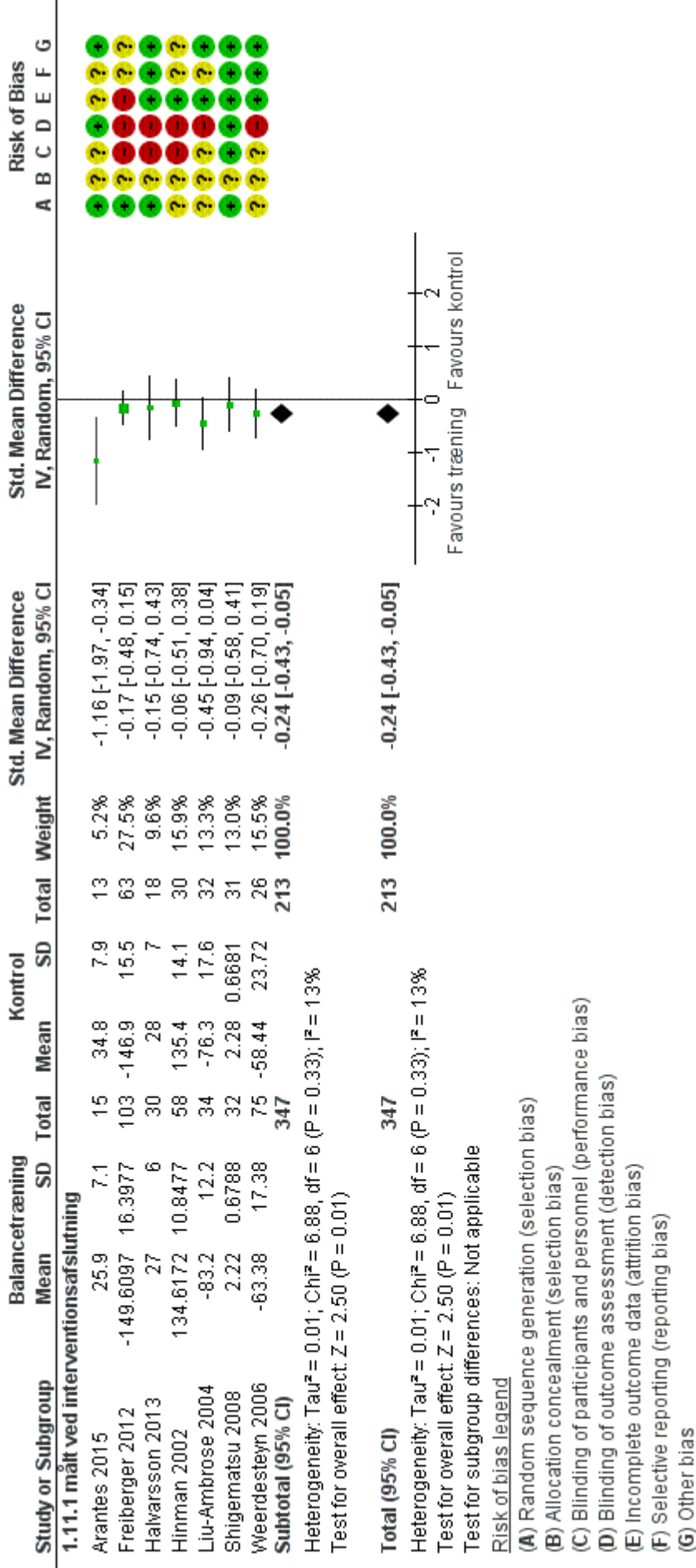
**Figure 11 (Analysis 1.10)**



Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.10 Mobilitet change (TUG).

**Figure 12 (Analysis 1.11)**

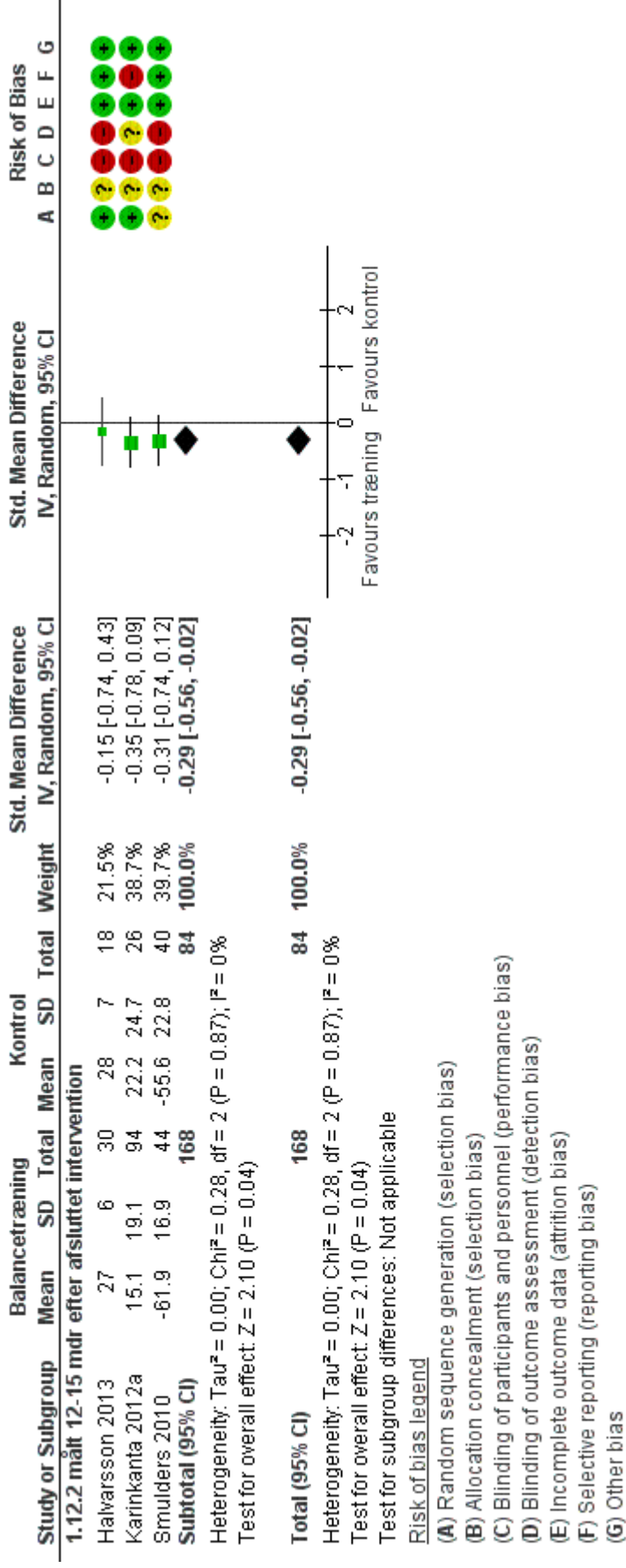




Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.11 Frygt for fald (FES-I, ABC, VAS, balance confidence) EoT.

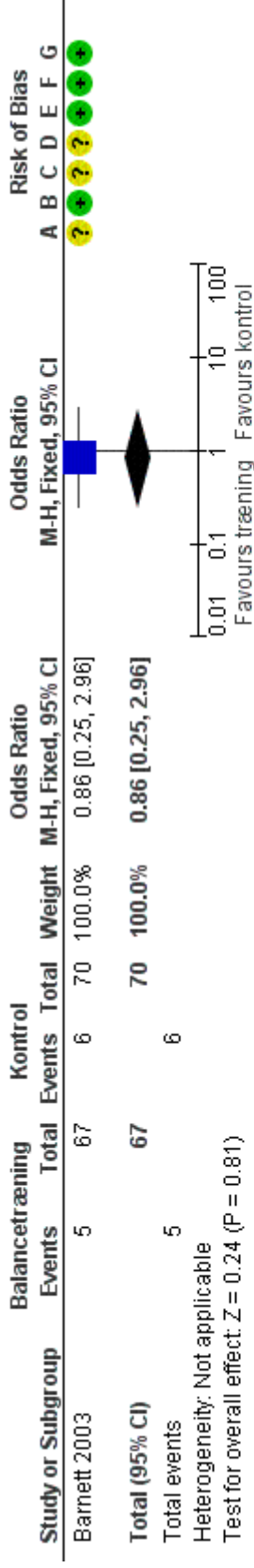
Figure 13 (Analysis 1.12)





Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.12 Frygt for fald (FES-I, ABC, VAS, balance confidence) 12-15 month FU.

Figure 14 (Analysis 1.13)

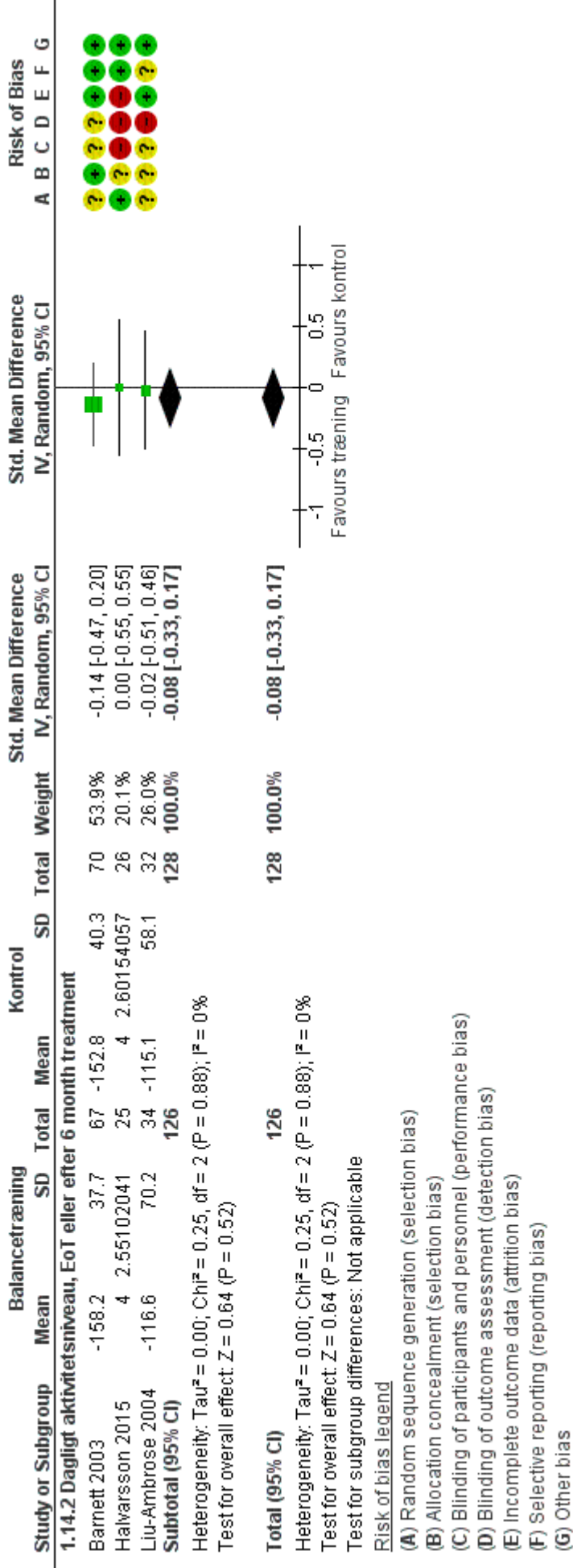


Risk of bias legend

- (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

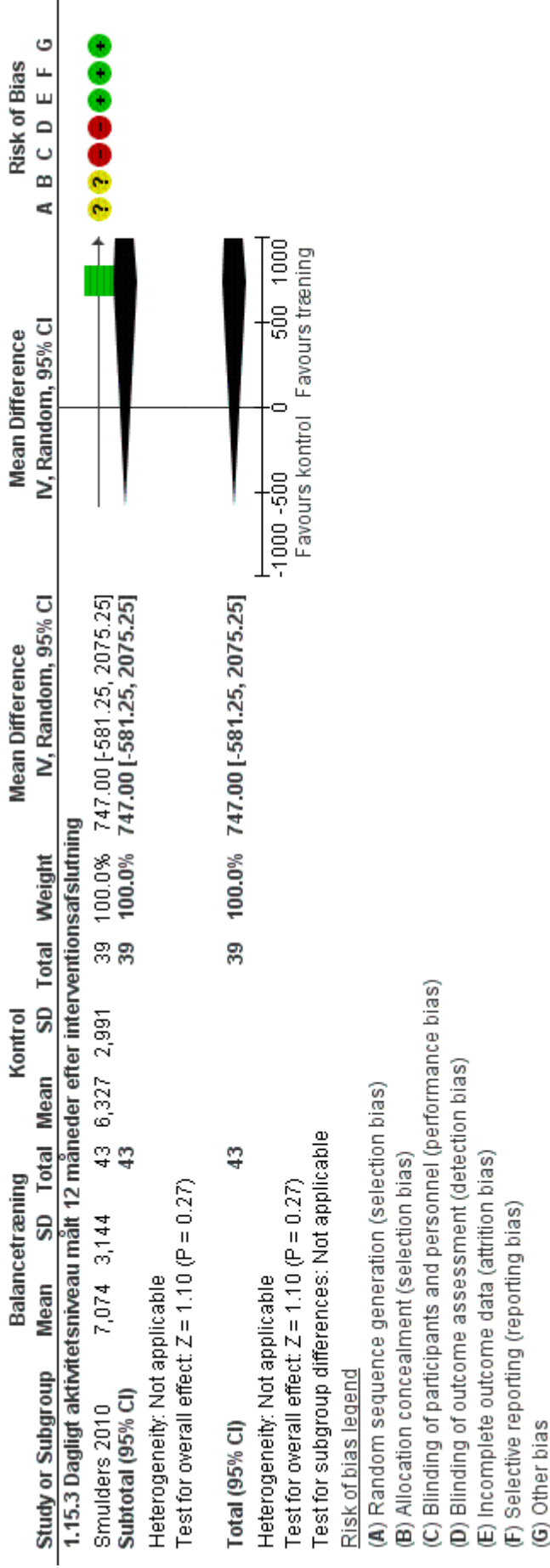
Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.13 Frygt for fald\_dicho, målt v. 6 mdr i en 12 mdr lang intervention.

**Figure 15 (Analysis 1.14)**



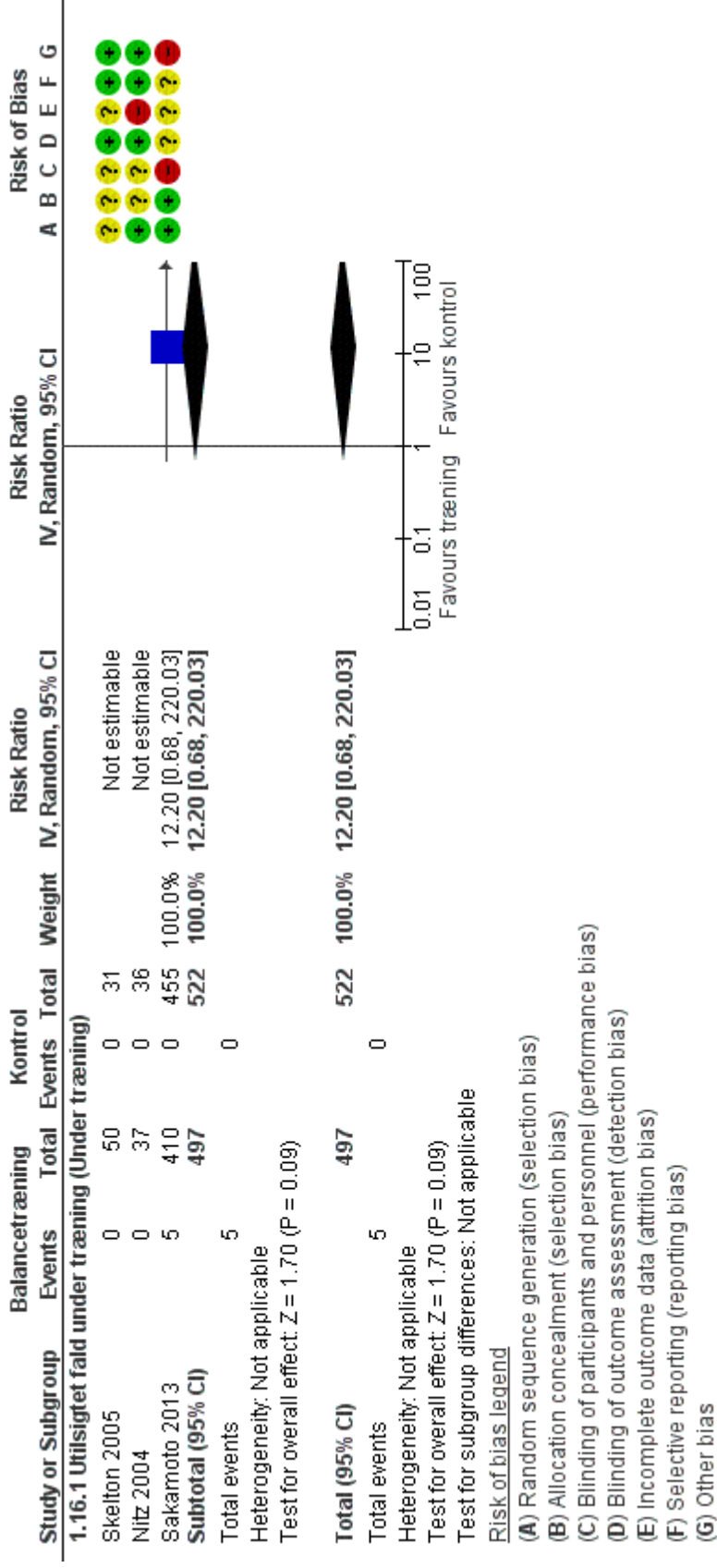
Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.14 Dagligt aktivitetsniveau EoT (physical activity scale, pedometer, Frändin-Grimbu scale).

**Figure 16 (Analysis 1.15)**



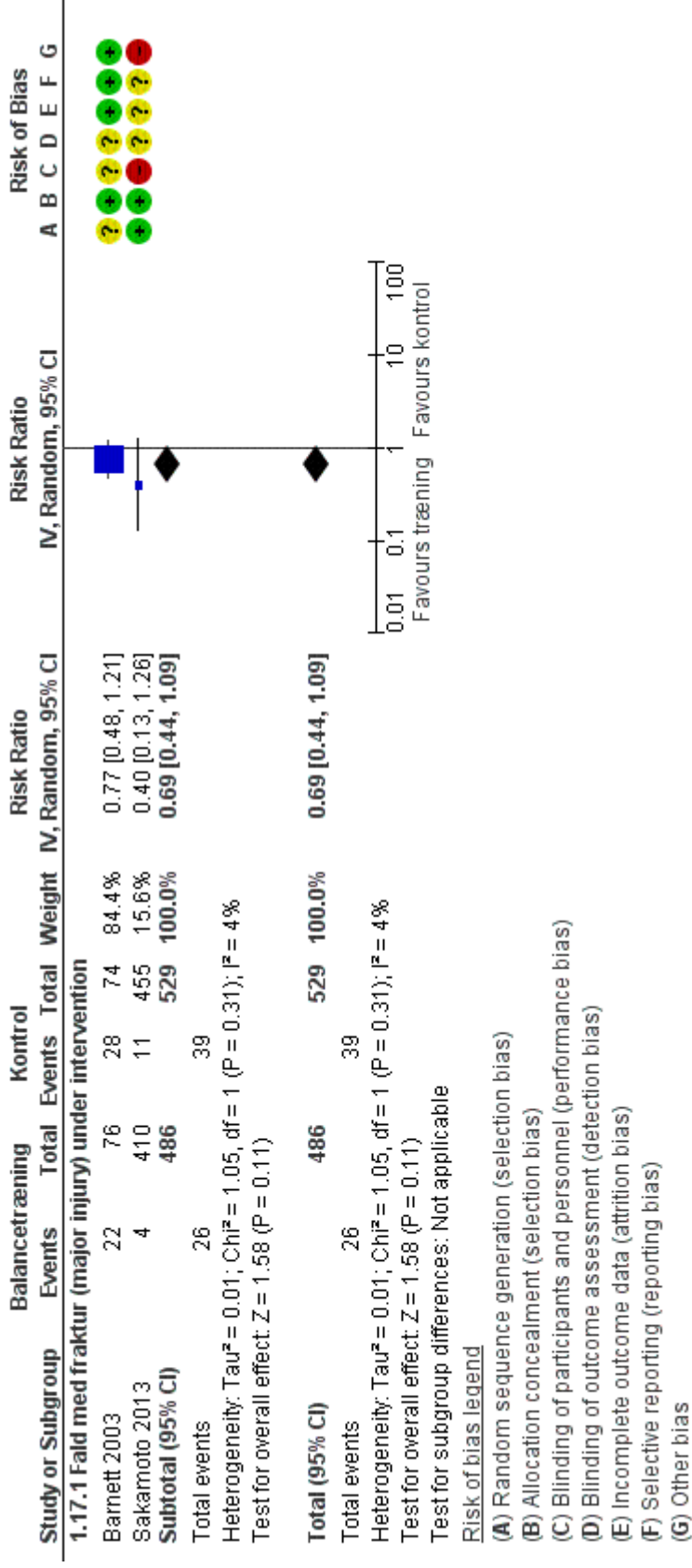
Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.15 Dagligt aktivitetsniveau 12 month FU (pedometer).

**Figure 17 (Analysis 1.16)**



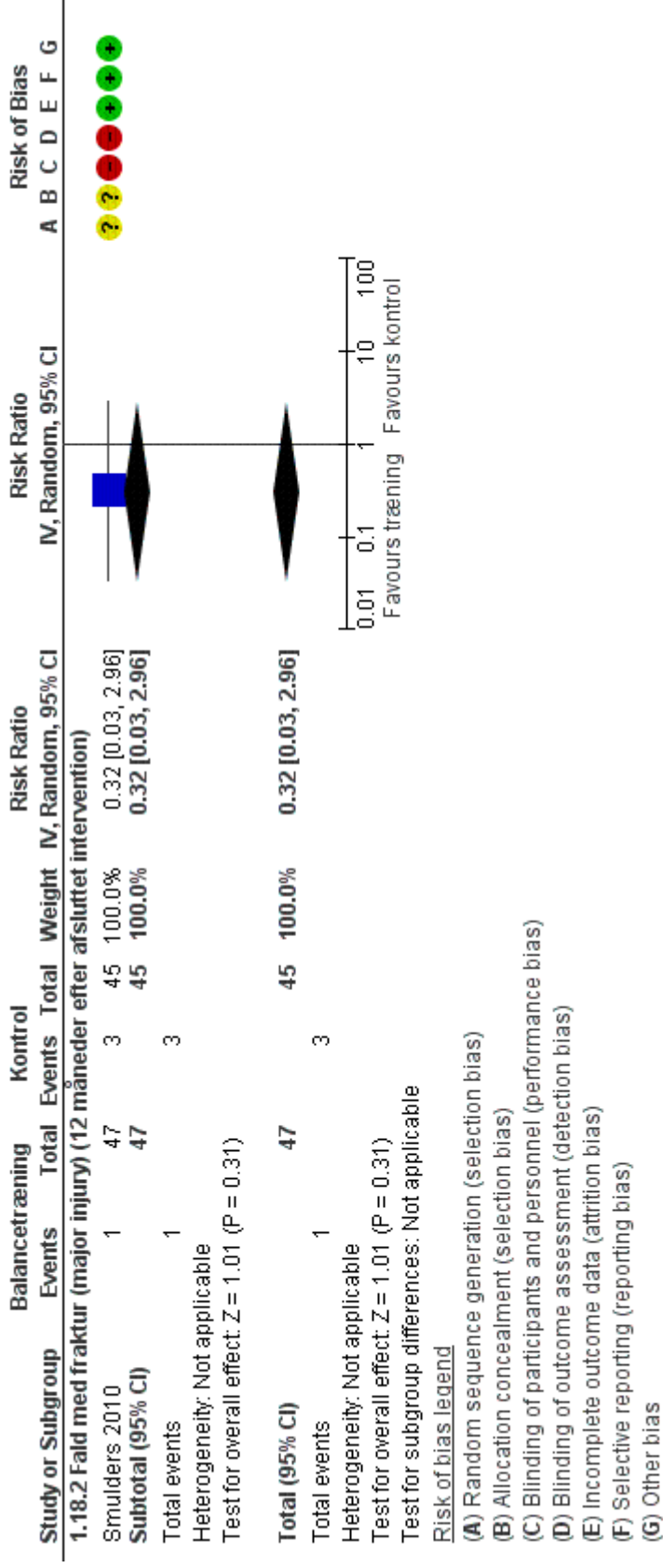
Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.16 Utilisiget fald under træning.

**Figure 18 (Analysis 1.17)**



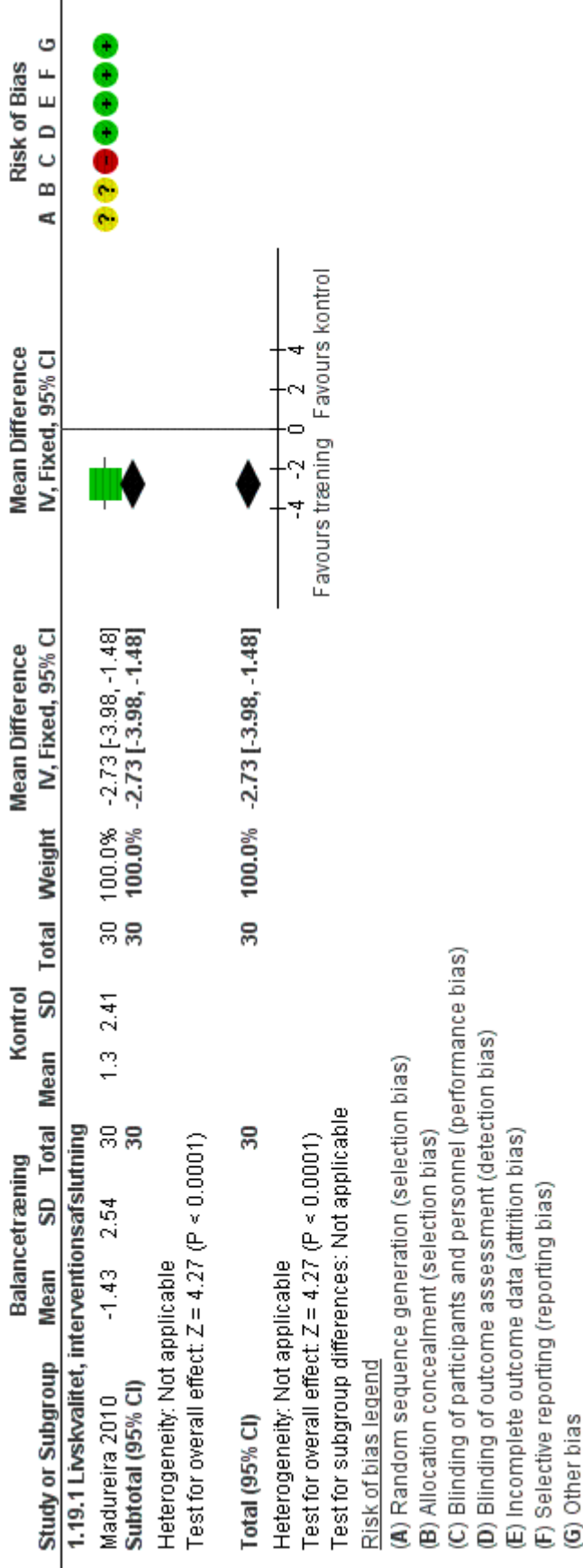
Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.17 Fald med fraktur EoT.

**Figure 19 (Analysis 1.18)**



Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.18 Fald med fraktur 12 month FU.

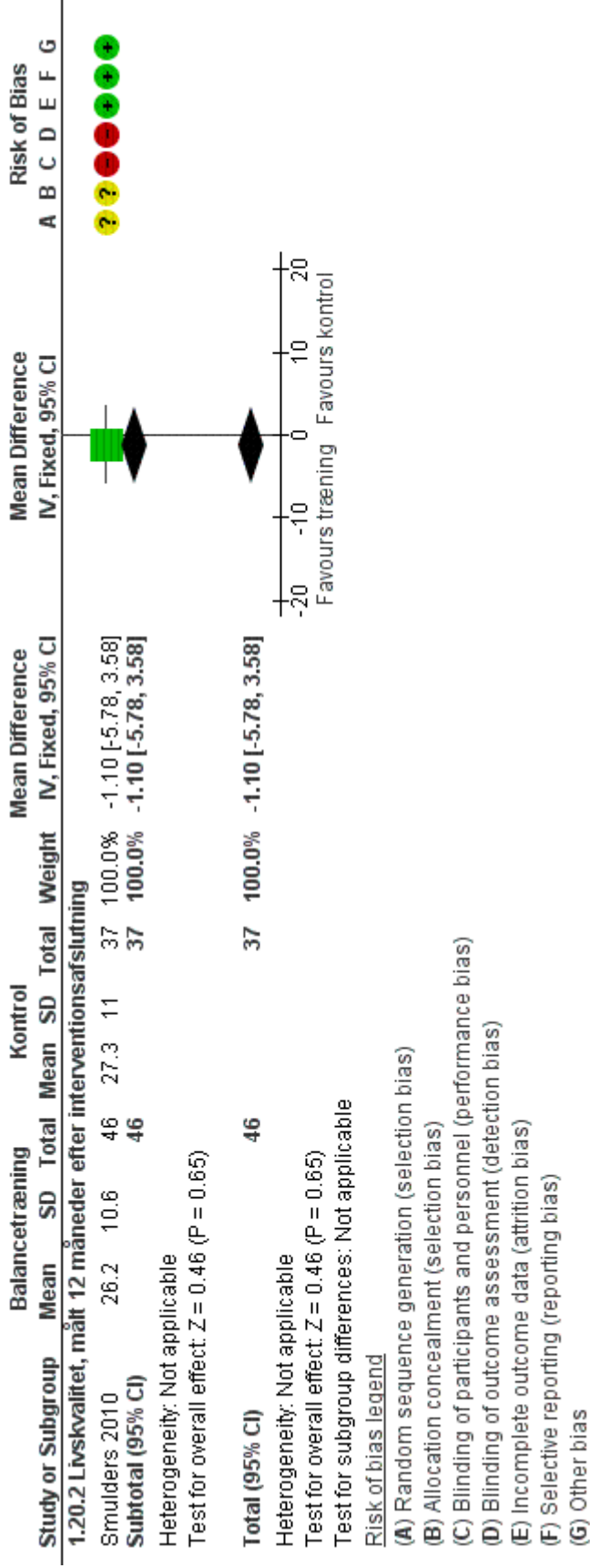
**Figure 20 (Analysis 1.19)**



Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.19 Livskvalitet EoT OPAQ.

**Figure 21 (Analysis 1.20)**





Forest plot of comparison: 1 Balancetræning vs ingen træning, outcome: 1.20 Livskvalitet 12 month FU QUALEFO.