# **Abstract**

Background

**Objectives** 

**Search methods** 

**Selection criteria** 

**Data collection and analysis** 

**Main results** 

**Authors' conclusions** 

# **Characteristics of studies**

**Characteristics of included studies** 

#### Malmivaara 1995

| Methods       | Study design: Randomized controlled trial         Study grouping: Parallel group         Open Label:         Cluster RCT:  |
|---------------|--|
| Participants  | Baseline Characteristics         Exercise group         Bed rest         Stay active         Included criteria: They included patients with acute low back pain or exacerbations of chronic pain lasting less than<br>three weeks. Patients with pain radiating below the knee were included, but not patients with a sciatic syndrome         Excluded criteria: patients with a sciatic syndrome (defined by the presence of at least one neurologic deficit or a<br>positive Lasègue's sign of 60 degrees or less). Also excluded were pregnant patients and those with a history of cancer,<br>a fracture of the lumbar spine, or urinarytract disease.         Pretreatment: The three groupswere similar with regard to most of the base-line characteristics. The control group<br>contained a few morepeople engaged in heavy physical work, the bed-restgroup had more patients with pain radiating<br>below theknee, and the exercise group had more patients withprolonged pain during the previous 12 months.<br>Twopatients in the exercise group had undergone previousback surgery. The patients in all three groups workedin a wide<br>variety of municipal occupations. |
| Interventions | <ul> <li>Intervention Characteristics Exercise group <ul> <li>Two days of complete bed rest, with only essential walking allowed. They were advised about suitable resting positions and were given an illustration of a patient lying supine with the knees supported in a flexed position (the semi-Fowler position): <ul> <li>received individual instruction from a physiotherapist in one session, as well as written recommendations for back-extension and lateral bending movements to be done at home every other hour during the day until the pain subsided.: x</li> <li>were told to avoid bed rest and advised to continue their routines as actively as possible within the limits permitted by their back pain:</li> </ul> Bed rest <ul> <li>Two days of complete bed rest, with only essential walking allowed. They were advised about suitable resting</li> </ul></li></ul></li></ul>  |

|          | <ul> <li>positions and were given an illustration of a patient lying supine with the knees supported in a flexed position (the semi-Fowler position): x</li> <li>received individual instruction from a physiotherapist in one session, as well as written recommendations for back-extension and lateral bending movements to be done at home every other hour during the day until the pain subsided.:</li> <li>were told to avoid bed rest and advised to continue their routines as actively as possible within the limits permitted by their back pain:</li> </ul>   |
|----------|---|
|          | <ul> <li>Stay active</li> <li>Two days of complete bed rest, with only essential walking allowed. They were advised about suitable resting positions and were given an illustration of a patient lying supine with the knees supported in a flexed position (the semi-Fowler position):</li> <li>received individual instruction from a physiotherapist in one session, as well as written recommendations for back-extension and lateral bending movements to be done at home every other hour during the day until the pain subsided.:</li> <li>were told to avoid bed rest and advised to continue their routines as actively as possible within the limits permitted by their back pain: x</li> </ul> |
| Outcomes | <ul> <li>pain</li> <li>Outcome type: ContinuousOutcome</li> <li>Reporting: Partially reported</li> <li>Scale: NRS</li> <li>Range: 0-10</li> <li>Unit of measure: none</li> <li>Direction: Lower is better</li> <li>Data value: Endpoint</li> <li>Notes: Difference in adjusted group means (95%CI) er afrapporteret</li> </ul>  |
|          | <ul> <li>Outcome type: ContinuousOutcome</li> <li>Reporting: Partially reported</li> <li>Scale: Oswestry back disability index</li> <li>Range: 0-100</li> <li>Unit of measure: none</li> </ul>  |

|                | <ul> <li>Direction: Lower is better</li> <li>Data value: Endpoint</li> </ul>  |
|----------------|---|
|                | <ul> <li>No of sick days</li> <li>Outcome type: ContinuousOutcome</li> <li>Reporting: Partially reported</li> <li>Scale: no of days</li> <li>Range: 0 - 21</li> <li>Unit of measure: no of days</li> <li>Direction: Lower is better</li> <li>Data value: Endpoint</li> </ul>  |
| Identification | Sponsorship source: not reported<br>Country: Finland<br>Setting: occupational health care centers<br>Comments:<br>Authors name: NTTI MALMIVAARA, M.D., PH.D., UNTO HÄKKINEN, M.SC., PH.D., TIMO ARO, M.D., PH.D.,<br>MAJ-LEN HEINRICHS, R.N., LIISA KOSKENNIEMI, M.D., EEVA KUOSMA, M.SC., SEPPO LAPPI, M.D., RAILI<br>PALOHEIMO, M.D., CARITA SERVO, M.D., VESA VAARANEN, M.D., PH.D., AND SVEN HERN<br>Institution: Department of Occupational Medicine, Finnish Institute of Oc-cupational Health<br>Email: not reported<br>Address: Department of Occupational Medicine, Finnish Institute of Oc-cupational Health, Topeliuksenkatu 41 aA,<br>FIN-00250 Helsinki, Finland |
| Notes          | Fagkonsulent Nkr40 on 05/02/2016 02:06         Interventions         The exercise group is not relevant for this PICO         Fagkonsulent Nkr40 on 05/02/2016 02:15         Outcomes         PAIN: Difference in adjusted group means (95%CI): 0.3 (-0.4 to 0.9) (bed rest - stay active)DISABILITY: Difference in adjusted group means (95%CI): 3.9 (-0.2 to 8.0) (bed rest - stay active)SICK DAYS: Difference in adjusted group means (95%CI): 3.2 (1.3 to 5.0) (bed rest - stay active)  |

### Risk of bias table

| Bias                                   | Authors' judgement | Support for judgement |
|--|--------------------|-----------------------|
| Allocation concealment                 | Low risk           |                       |
| Sequence Generation                    | Low risk           |                       |
| Blinding of outcome assessors          | High risk          |                       |
| Other sources of bias                  | Low risk           |                       |
| Blinding of participants and personnel | High risk          |                       |
| Selective outcome reporting            | Unclear risk       | No info               |
| Incomplete outcome data                | Low risk           |                       |

# Olaya Contreras 2015

| Methods        |  |
|----------------|--|
| Participants   |  |
| Interventions  |  |
| Outcomes       |  |
| Identification |  |
| Notes          |  |

## Risk of bias table

| Bias                          | Authors' judgement | Support for judgement |
|-------------------------------|--------------------|-----------------------|
| Allocation concealment        | Low risk           |                       |
| Sequence Generation           | Low risk           |                       |
| Blinding of outcome assessors | Unclear risk       | No info               |

| Other sources of bias                  | Unclear risk | No info |
|--|--------------|---------|
| Blinding of participants and personnel | High risk    |         |
| Selective outcome reporting            | Low risk     |         |
| Incomplete outcome data                | Low risk     |         |

# Pengel 2007

| Methods       | Study design: Randomized controlled trial<br>Study grouping: Parallel group<br>Open Label:<br>Cluster RCT:  |
|---------------|---|
| Participants  | <ul> <li>Baseline Characteristics</li> <li>Exercise group + Advice - stay active</li> <li>(sham exercise) + Advice - stay active</li> <li>Exercise (+ sham advice)</li> <li>Sham Exercise + sham advice</li> <li>Included criteria: 18 and 80 years of agewith nonspecific low back pain lasting for at least 6 weeksbut no longer than 12 weeks.</li> <li>Excluded criteria: spinal surgery in the past 12 months, pregnancy,nerve root compromise, confirmed or suspected seriousspinal abnormality (for example, infection, fracture, or thecauda equina syndrome), contraindications to exercise, andpoor comprehension of the English languag</li> <li>Pretreatment: The groups were similar at baseline (Table 1), exceptthat slightly more participants in the sham exercise andsham advice group (6%) than in other groups had had surgery for back pain (3% in the exercise and sham advicegroup and 0% in the other 2 groups).</li> </ul> |
| Interventions | <ul> <li>Intervention Characteristics</li> <li>Exercise group + Advice - stay active <ul> <li>Aerobic exercise - individualised + based on CBT + progressive + goal setting, 12 session over 6 weeks: x</li> <li>Empathic physiotherapist - no advice:</li> <li>Graded retur to normal activities, ad modus Ingdahl, stay active: x</li> <li>The control for the exercise intervention consisted of sham pulsed ultrasonography (5 minutes) and sham pulsed short-wave diathermy (20 minutes):</li> </ul> </li> </ul>   |

|          | <ul> <li>(sham exercise) + Advice - stay active</li> <li>Aerobic exercise - individualised + based on CBT + progressive + goal setting, 12 session over 6 weeks:</li> <li>Empathic physiotherapist - no advice:</li> <li>Graded retur to normal activities, ad modus Ingdahl, stay active: x</li> <li>The control for the exercise intervention consisted of sham pulsed ultrasonography (5 minutes) and sham pulsed short-wave diathermy (20 minutes): x</li> </ul> |
|----------|--|
|          | <ul> <li>Exercise (+ sham advice)</li> <li>Aerobic exercise - individualised + based on CBT + progressive + goal setting, 12 session over 6 weeks: x</li> <li>Empathic physiotherapist - no advice: x</li> <li>Graded retur to normal activities, ad modus Ingdahl, stay active:</li> <li>The control for the exercise intervention consisted of sham pulsed ultrasonography (5 minutes) and sham pulsed short-wave diathermy (20 minutes):</li> </ul>               |
|          | <ul> <li>Sham Exercise + sham advice</li> <li>Aerobic exercise - individualised + based on CBT + progressive + goal setting, 12 session over 6 weeks:</li> <li>Empathic physiotherapist - no advice: x</li> <li>Graded retur to normal activities, ad modus Ingdahl, stay active:</li> <li>The control for the exercise intervention consisted of sham pulsed ultrasonography (5 minutes) and sham pulsed short-wave diathermy (20 minutes): x</li> </ul>            |
| Outcomes | <ul> <li><i>pain</i></li> <li>Outcome type: ContinuousOutcome</li> <li>Reporting: Partially reported</li> <li>Scale: NRS</li> <li>Range: 0-10</li> <li>Unit of measure: none</li> <li>Direction: Lower is better</li> <li>Data value: Endpoint</li> </ul>  |
|          | Disability  Outcome type: ContinuousOutcome  Reporting: Partially reported  Scale: Roland Morris  Range: 0-24  |

|                | <ul> <li>Unit of measure: none</li> <li>Direction: Lower is better</li> <li>Data value: Endpoint</li> </ul>   |
|----------------|---|
| Identification | <ul> <li>Sponsorship source: The study was funded by the National Health andMedical Research Council of Australia and the AustralasianLow Back Pain Trial Committee. The funding sources hadno role in study design; collection, analysis, or interpretation of the data; or writing of the report.</li> <li>Country: Australia and New Zealand</li> <li>Setting: 7 physiotherapy clinics in Australia and New Zealand, of which 6 were in university teaching hospitals and 1 was in a primary care clinic.</li> <li>Comments:</li> <li>Authors name: Liset H.M. Pengel, PhD; Kathryn M. Refshauge, PhD; Christopher G. Maher, PhD; Michael K. Nicholas, PhD; Robert D. Herbert, PhD; and Peter McNair, PhD</li> <li>Institution: Dr. Pengel: Centre for Evidence in Transplantation, Royal College of Surgeons of England, 35-43 Lincoln's Inn Fields, London WC2A 3PE, United Kingdom.</li> <li>Email: not provided</li> <li>Address: Dr. Pengel: Centre for Evidence in Transplantation, Royal College of Surgeons of England, 35-43 Lincoln's InnFields, London WC2A 3PE, United Kingdom.</li> </ul> |
| Notes          |   |

## Risk of bias table

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

# Rozenberg 2002

| Methods       | Study design: Randomized controlled trial<br>Study grouping: Parallel group<br>Open Label:  |
|---------------|---|
|               | Cluster RCT:  |
| Participants  | <ul> <li>Baseline Characteristics</li> <li>Bed rest</li> <li>Stay active</li> <li>Included criteria: ambulatory patients, ages 18 to 65 years, who had acute lowback pain or a painful recent episode of chronic low back pain(in the past 72 hours) with spontaneous lumbar pain rated atleast 40 mm on a 100-mm visual analog scale (VAS)</li> <li>Excluded criteria: patients with pain radiating below the buttocks were excluded.compressive, posttraumatic,</li> </ul>  |
|               | inflammatory, infectious, or tumoral lumbar disease as well aslow back pain resulting from an occupational accident <b>Pretreatment:</b> The two groups were comparable formost of the variables at inclusion   |
| Interventions | <ul> <li>Intervention Characteristics Bed rest <ul> <li>4 days of stay in bed except for personal care and eating. The mean time spent in bed was not to be less than 16 of every 24 hours:</li> <li>Stay active - continue normal daily activities, insofar as the pain allowed. The mean time spent in bed was not to exceed 12 of every 24 hours during the first 4 days (night rest included: </li> <li>Stay active <ul> <li>4 days of stay in bed except for personal care and eating. The mean time spent in bed was not to exceed 12 of every 24 hours during the first 4 days (night rest included:</li> </ul> </li> <li>Stay active <ul> <li>4 days of stay in bed except for personal care and eating. The mean time spent in bed was not to be less than 16 of every 24 hours:</li> <li>Stay active - continue normal daily activities, insofar as the pain allowed. The mean time spent in bed was not to exceed 12 of every 24 hours:</li> <li>Stay active - continue normal daily activities, insofar as the pain allowed. The mean time spent in bed was not to exceed 12 of every 24 hours during the first 4 days (night rest included:</li> </ul> </li> </ul></li></ul> |
| Outcomes      | <ul> <li><i>pain</i></li> <li>Outcome type: ContinuousOutcome</li> <li>Reporting: Fully reported</li> <li>Scale: VAS</li> </ul>   |

|                | <ul> <li>Range: 0-100</li> <li>Unit of measure: none</li> <li>Direction: Lower is better</li> </ul>   |
|----------------|---|
|                | Disability  Outcome type: ContinuousOutcome Reporting: Fully reported Scale: Roland Morris Range: 0-24 Direction: Lower is better Data value: Endpoint  |
| Identification | Sponsorship source: not reported<br>Country: Frankrig<br>Setting: Primary care<br>Comments:<br>Authors name: Sylvie Rozenberg, Cecile Delval, Yvonne Rezvani, et al.<br>Institution: Department of Rheumatology, Pitie´-Salpetriere Hospital, Paris, Frankrig<br>Email: sylvie.rozenberg@psl.ap-hop-paris.fr<br>Address: Dr Sylvie RozenbergGroupe Hospitalier Pitie´-Salpe^trie`reService de Rhumatologie47-83 Bd de l'ho^<br>pital75013 ParisFrance |
| Notes          | <i>Fagkonsulent Nkr40</i> on 01/02/2016 21:14<br><b>Select</b><br>Kirsten: Fuldtekst Kommer 2/2   |

### Risk of bias table

| Bias                          | Authors' judgement | Support for judgement |
|-------------------------------|--------------------|-----------------------|
| Allocation concealment        | Low risk           |                       |
| Sequence Generation           | Low risk           |                       |
| Blinding of outcome assessors | High risk          |                       |

| Other sources of bias                  | Low risk     |         |
|--|--------------|---------|
| Blinding of participants and personnel | High risk    |         |
| Selective outcome reporting            | Unclear risk | No info |
| Incomplete outcome data                | Low risk     |         |

## Wilkinson 1995

| Methods       | Study design: Randomized controlled trial<br>Study grouping: Parallel group<br>Open Label:<br>Cluster RCT:  |
|---------------|---|
| Participants  | <ul> <li>Baseline Characteristics</li> <li>Bed rest</li> <li>Stay active</li> <li>Included criteria: patients in the age range 16-60 years who presentedwith acute low back. Acute pain was classed as that of less than seven days' duration,5 and subjects had to have been free from back pain for the28 days before the present episode. Acute low back pain wasdefined as pain in the area bounded by the lowest palpable ribssuperiorly, the posterior axillary lines laterally, and gluteal foldsinferiorly; the pain could radiate down one or both legs.6</li> <li>Excluded criteria: nonmusculoskeletalpain, previous bed rest for more than 24 hours in the present episode, urinary tract infection, viral illness, pyrexia, illiteracy, anticoagulant or steroid therapy, medical contraindicationsto bed rest, major spinal pathology, inflammatory joint diseaseand active cancer.</li> <li>Pretreatment: There were no statistically significant differences between thebed rest and control groups with respect to the subjects' demographicand prognostic details (Table 1) or with respect to meanage, 35.2 years and 41.2 years, respectively, or mean duration ofback pain episode, 3.0 days (standard deviation (SD) 1.4 days)and 3.3 days (SD 2.0 days), respectively</li> </ul> |
| Interventions | Intervention Characteristics<br>Bed rest<br>• 48 hours' strict bed rest: x<br>• encouraged to remain mobile and to have no daytime rest (defined as between 09.00 hours and 21.00 hours):<br>• Ibuprofen: x<br>Stay active  |

|                | <ul> <li>48 hours' strict bed rest:</li> <li>encouraged to remain mobile and to have no daytime rest (defined as between 09.00 hours and 21.00 hours): x</li> <li>Ibuprofen: x</li> </ul>   |
|----------------|---|
| Outcomes       | Roland Morris         • Outcome type: ContinuousOutcome         • Reporting: Fully reported         • Scale: Roland Morris         • Range: 0-24         • Unit of measure: none         • Direction: Lower is better         • Data value: Endpoint  |
|                | Oswestry (ODI)<br>• Outcome type: ContinuousOutcome<br>• Reporting: Fully reported<br>• Scale: Oswestry back disability index<br>• Range: 0-100<br>• Unit of measure: none<br>• Direction: Lower is better<br>• Data value: Endpoint  |
| Identification | <ul> <li>Sponsorship source: This project was funded by a Royal College of General Practitioners scientifcfoundation research grant.</li> <li>Country: UK</li> <li>Setting: Primary care</li> <li>Comments:</li> <li>Authors name: MARTIN J B WILKINSON</li> <li>Institution: Department of General Practice, University of Birmingham, Medical School, Edgbaston, Birmingham</li> <li>Email: M.J.B. Wilkinson@bham.ac.uk.</li> <li>Address: Department of General Practice, University ofBirmingham, Medical School, Edgbaston, Birmingham B15 2TT.</li> </ul> |
| Notes          |   |

#### Risk of bias table

| Bias                                   | Authors' judgement | Support for judgement |
|--|--------------------|-----------------------|
| Allocation concealment                 | Unclear risk       | No info               |
| Sequence Generation                    | Unclear risk       | No info               |
| Blinding of outcome assessors          | Unclear risk       | No info               |
| Other sources of bias                  | High risk          |                       |
| Blinding of participants and personnel | High risk          |                       |
| Selective outcome reporting            | Unclear risk       | No info               |
| Incomplete outcome data                | Unclear risk       | No info               |

Footnotes

# **References to studies**

#### **Included studies**

#### Malmivaara 1995

Malmivaara,A.; Hakkinen,U.; Aro,T.; Heinrichs,M. L.; Koskenniemi,L.; Kuosma,E.; Lappi,S.; Paloheimo,R.; Servo,C.; Vaaranen,V.. The treatment of acute low back pain--bed rest, exercises, or ordinary activity? The New England journal of medicine 1995;332(6):351-355. [DOI: 10.1056/NEJM199502093320602 [doi]]

### **Olaya Contreras 2015**

[Empty]

### Pengel 2007

Pengel, L. H.; Refshauge, K. M.; Maher, C. G.; Nicholas, M. K.; Herbert, R. D.; McNair, P.. Physiotherapist-directed exercise, advice, or both for subacute low back pain: a randomized trial. Annals of internal medicine 2007;146(11):787-96. [DOI: 146/11/787 [pii]]

#### Rozenberg 2002

Rozenberg, S.; Delval, C.; Rezvani, Y.; Olivieri-Apicella, N.; Kuntz, J.; Legrand, E.; Valat, J.; Blotman, F.; Meadeb, J.; Rolland, D.; Hary, S.; Duplan, B.; Feldmann, J.; Bourgeois, P.. Bed rest or normal activity for patients with acute low back pain: a randomized controlled trial. Spine 2002;27(14):1487-1493. [DOI: 00007632-200207150-00002 [pii]]

#### Wilkinson 1995

Wilkinson, M.J.. Does 48 hours' bed rest influence the outcome of acute low back pain? 1995;45(398):481-484. [DOI: ]

# **Data and analyses**

### 1 Aflastning vs Stay active (vanlig aktivitet)

| Outcome or Subgroup                      | Studies | Participants | Statistical Method                        | Effect Estimate      |
|--|---------|--------------|---|----------------------|
| 1.1 Smertenivau 0-12 uger                | 4       |              | Mean Difference (IV, Random, 95% CI)      | Subtotals only       |
| 1.1.3 Smerteniveau 0-12 uger             | 4       | 613          | Mean Difference (IV, Random, 95% CI)      | -0.56 [-0.87, -0.24] |
| 1.2 Funktionsniveau 0-12 uger            | 3       |              | Std. Mean Difference (IV, Random, 95% CI) | Subtotals only       |
| 1.2.1 Funktionsniveau 0-12 uger          | 3       | 514          | Std. Mean Difference (IV, Random, 95% CI) | 0.25 [0.08, 0.43]    |
| 1.3 Smerteniveau 6-18 måneder            | 1       |              | Mean Difference (IV, Fixed, 95% CI)       | Subtotals only       |
| 1.3.1 Smerteniveau 6-18 måneder          | 1       | 118          | Mean Difference (IV, Fixed, 95% CI)       | 0.30 [-0.39, 0.99]   |
| 1.4 Funktionsniveau 6-18 måneder         | 1       |              | Mean Difference (IV, Fixed, 95% CI)       | Subtotals only       |
| 1.4.1 Funktionsniveau 6-18 måneder       | 1       | 115          | Mean Difference (IV, Fixed, 95% CI)       | 0.90 [-0.95, 2.75]   |
| 1.5 Sygefravær - antal sygedage          | 0       | 0            | Mean Difference (IV, Fixed, 95% CI)       | Not estimable        |
| 1.6 Livskvalitet 0-12 uger               | 0       | 0            | Mean Difference (IV, Fixed, 95% CI)       | Not estimable        |
| 1.7 Sygefravær - tid tilbage til arbejde | 0       | 0            | Mean Difference (IV, Fixed, 95% CI)       | Not estimable        |
| 1.8 Sygefravær - proportion i arbejde    | 0       | 0            | Mean Difference (IV, Fixed, 95% CI)       | Not estimable        |

| 1.9 Recidiv 6 - 18 måneder | 0 | 0 | Mean Difference (IV, Fixed, 95% CI) | Not estimable |
|----------------------------|---|---|-------------------------------------|---------------|
|----------------------------|---|---|-------------------------------------|---------------|

# **Figures**

## Figure 1 (Analysis 1.1)

|                                      | Afl                  | astnin  | g         | Vanli     | g aktiv               | itet  |        | Mean Difference      | Mean Difference                   | Risk of Bias    |
|--------------------------------------|----------------------|---------|-----------|-----------|-----------------------|-------|--------|----------------------|-----------------------------------|-----------------|
| Study or Subgroup                    | Mean                 | SD      | Total     | Mean      | SD                    | Total | Weight | IV, Random, 95% Cl   | IV, Random, 95% Cl                | ABCDEFG         |
| 1.1.3 Smerteniveau 0-1               | 2 uger               |         |           |           |                       |       |        |                      |                                   |                 |
| Malmivaara 1995                      | -2.4                 | 1.88    | 62        | -1.9      | 2.09                  | 61    | 20.2%  | -0.50 [-1.20, 0.20]  |                                   | • • • • • • ? • |
| Olaya Contreras 2015                 | -2.8                 | 2.1     | 47        | -2.3      | 2.1                   | 52    | 14.6%  | -0.50 [-1.33, 0.33]  |                                   | •••??           |
| Pengel 2007                          | -3.8                 | 1.7     | 59        | -2.8      | 2.1                   | 55    | 20.1%  | -1.00 [-1.70, -0.30] | _ <b></b>                         |                 |
| Rozenberg 2002                       | -2.8                 | 2       | 137       | -2.4      | 2                     | 140   | 45.0%  | -0.40 [-0.87, 0.07]  |                                   | •••••           |
| Subtotal (95% CI)                    |                      |         | 305       |           |                       | 308   | 100.0% | -0.56 [-0.87, -0.24] | ◆                                 |                 |
| Heterogeneity: Tau <sup>2</sup> = 0. | 00; Chi <sup>z</sup> | = 1.99  | l, df = 3 | (P = 0.5) | 57); I <sup>z</sup> = | 0%    |        |                      |                                   |                 |
| Test for overall effect: Z :         | = 3.44 (F            | ° = 0.0 | 006)      |           |                       |       |        |                      |                                   |                 |
|                                      |                      |         |           |           |                       |       |        |                      |                                   |                 |
|                                      |                      |         |           |           |                       |       |        | -                    |                                   |                 |
|                                      |                      |         |           |           |                       |       |        | Stav acti            | ive (vanlig aktivitet) Aflastning |                 |

Test for subgroup differences: Not applicable

Risk of bias legend

(A) Allocation concealment

(B) Sequence Generation

(C) Blinding of outcome assessors

(D) Other sources of bias

(E) Blinding of participants and personnel

(F) Selective outcome reporting

(G) Incomplete outcome data

Forest plot of comparison: 1 Aflastning vs Stay active (vanlig aktivitet), outcome: 1.1 Smertenivau 0-12 uger.

#### Figure 2 (Analysis 1.2)

|  | Afl      | astning  | J                 | Vanli | ig aktivi | itet              |                         | Std. Mean Difference                           | Std. Mean Difference                      | Risk of Bias    |
|--|----------|----------|-------------------|-------|-----------|-------------------|-------------------------|--|---|-----------------|
| Study or Subgroup  | Mean     | SD       | Total             | Mean  | SD        | Total             | Weight                  | IV, Random, 95% Cl                             | IV, Random, 95% Cl                        | ABCDEFG         |
| 1.2.1 Funktionsnivea   | u 0-12 u | ger      |                   |       |           |                   |                         |  |   |                 |
| Malmivaara 1995  | 16       | 14.51    | 62                | 10    | 10.26     | 61                | 24.0%                   | 0.47 [0.12, 0.83]                              |   |                 |
| Pengel 2007  | 5.2      | 5.6      | 59                | 4.6   | 4.4       | 55                | 22.9%                   | 0.12 [-0.25, 0.49]                             |   |                 |
| Rozenberg 2002<br>Subtotal (95% CI)  | 7.37     | 4.79     | 137<br><b>258</b> | 6.34  | 4.85      | 140<br><b>256</b> | 53.1%<br><b>100.0</b> % | 0.21 [-0.02, 0.45]<br><b>0.25 [0.08, 0.43]</b> | •   | ••••?•          |
| Heterogeneity: Tau <sup>2</sup> = 0.00; Chi <sup>2</sup> = 2.09, df = 2 (P = 0.35); l <sup>2</sup> = 4%<br>Test for overall effect: Z = 2.79 (P = 0.005) |          |          |                   |       |           |                   |                         |  |   |                 |
| Test for subgroup diff   | ferences | : Not ap | plicabl           | e     |           |                   |                         |  | -2 -1 0 1 2<br>Aflastning Stay active (va | nlig aktivitet) |
| Risk of bias legend  |          |          |                   | -     |           |                   |                         |  |   |                 |

- (A) Allocation concealment
- (B) Sequence Generation
- (C) Blinding of outcome assessors
- (D) Other sources of bias
- (E) Blinding of participants and personnel
- (F) Selective outcome reporting
- (G) Incomplete outcome data

Forest plot of comparison: 1 Aflastning vs Stay active (vanlig aktivitet), outcome: 1.2 Funktionsniveau 0-12 uger.

#### Figure 3 (Analysis 1.3)

|  | Afla                                    | istnin       | g               | Vanlig | aktiv | itet            |                          | Mean Difference                                 | Mean Difference                             | Risk of Bias  |
|--|---|--------------|-----------------|--------|-------|-----------------|--------------------------|---|---|---|
| Study or Subgroup  | Mean                                    | SD           | Total           | Mean   | SD    | Total           | Weight                   | IV, Fixed, 95% Cl                               | IV, Fixed, 95% Cl                           | ABCDEFG   |
| 1.3.1 Smerteniveau 6   | 5-18 mår                                | neder        |                 |        |       |                 |                          |   |   |   |
| Pengel 2007<br>Subtotal (95% CI)   | 3.2                                     | 1.7          | 59<br><b>59</b> | 2.9    | 2.1   | 59<br><b>59</b> | 100.0%<br><b>100.0</b> % | 0.30 [-0.39, 0.99]<br><b>0.30 [-0.39, 0.99]</b> |   | $\bullet \bullet ? \bullet \bullet \bullet \bullet$ |
| Heterogeneity: Not ap  | plicable                                |              |                 |        |       |                 |                          |   |   |   |
| Test for overall effect:   | Z = 0.85                                | (P =         | 0.39)           |        |       |                 |                          |   |   |   |
| Test for subgroup diff<br>Risk of bias legend  | erences                                 | : Not :      | applica         | ible   |       |                 |                          |   | -1 -0.5 0 0.5 1<br>Aflastning Stay active ( | vanlig aktivitet)                                   |
| (A) Allocation concea<br>(B) Sequence Genera   | Iment<br>ation                          |              |                 |        |       |                 |                          |   |   |   |
| (C) Blinding of outcon   | ne asse:                                | ssors        |                 |        |       |                 |                          |   |   |   |
| <ul> <li>(D) Other sources of I</li> <li>(E) Blinding of particip</li> <li>(F) Selective outcome</li> <li>(G) Incomplete outcor</li> </ul> | oias<br>oants an<br>reportin<br>me data | d pers<br>Ig | sonnel          |        |       |                 |                          |   |   |   |

Forest plot of comparison: 1 Aflastning vs Stay active (vanlig aktivitet), outcome: 1.3 Smerteniveau 6-18 måneder.

# Figure 4 (Analysis 1.4)

|                            | Afla     | istnin | g       | Vanlig | j aktiv | itet  |        | Mean Difference    | Mean Difference       | Risk of Bias  |
|----------------------------|----------|--------|---------|--------|---------|-------|--------|--------------------|-----------------------|---|
| Study or Subgroup          | Mean     | SD     | Total   | Mean   | SD      | Total | Weight | IV, Fixed, 95% Cl  | IV, Fixed, 95% Cl     | ABCDEFG   |
| 1.4.1 Funktionsnivea       |          |        |         |        |         |       |        |                    |                       |   |
| Pengel 2007                | 4.9      | 5.6    | 56      | 4      | 4.4     | 59    | 100.0% | 0.90 [-0.95, 2.75] |                       | $\bullet \bullet \circ \bullet \bullet \bullet \bullet \bullet$ |
| Subtotal (95% CI)          |          |        | 56      |        |         | 59    | 100.0% | 0.90 [-0.95, 2.75] | -                     |   |
| Heterogeneity: Not ap      | plicable |        |         |        |         |       |        |                    |                       |   |
| Test for overall effect:   | Z = 0.95 | i (P = | 0.34)   |        |         |       |        |                    |                       |   |
|                            |          |        |         |        |         |       |        |                    |                       |   |
|                            |          |        |         |        |         |       |        |                    | -10 -5 0 5            | <del></del>   |
|                            |          |        |         |        |         |       |        |                    | Aflastning Stav activ | e (vanlig aktivitet)  |
| Test for subgroup diff     | erences  | : Not  | applica | able   |         |       |        |                    |                       |   |
| <u>Risk of bias legend</u> |          |        |         |        |         |       |        |                    |                       |   |
| (A) Allocation concea      | lment    |        |         |        |         |       |        |                    |                       |   |
| (B) Sequence Genera        | ation    |        |         |        |         |       |        |                    |                       |   |
| (C) Blinding of outcon     | ne asse  | ssors  | 5       |        |         |       |        |                    |                       |   |
| (D) Other sources of b     | oias     |        |         |        |         |       |        |                    |                       |   |
| (E) Blinding of particip   | ants an  | d per  | sonnel  |        |         |       |        |                    |                       |   |
| (F) Selective outcome      | reportin | Ig     |         |        |         |       |        |                    |                       |   |
| (G) Incomplete outcor      | me data  |        |         |        |         |       |        |                    |                       |   |
|                            |          |        |         |        |         |       |        |                    |                       |   |

Forest plot of comparison: 1 Aflastning vs Stay active (vanlig aktivitet), outcome: 1.4 Funktionsniveau 6-18 måneder.

# Figure 5 (Analysis 1.5)

|                                   | Aflastning |    |       | Vanlig aktivitet |    |       | Mean Difference                               |                   |  | Mean Difference               | Risk of Bias |
|-----------------------------------|------------|----|-------|------------------|----|-------|---|-------------------|--|-------------------------------|--------------|
| Study or Subgroup                 | Mean       | SD | Total | Mean             | SD | Total | Weight  | IV, Fixed, 95% Cl |  | IV, Fixed, 95% Cl             | ABCDEFG      |
|                                   |            |    |       |                  |    |       |   |                   |  |                               |              |
| Total (95% CI)                    |            |    | 0     |                  |    | 0     |   | Not estimable     |  |                               |              |
| Heterogeneity: Not ap             |            |    |       |                  |    | +     |   | _                 |  |                               |              |
| Test for overall effect:          |            |    |       |                  |    | -20   | -10 0 10 20<br>Aflastning Stay active (vanlig | J<br>aktivitat)   |  |                               |              |
|                                   |            |    |       |                  |    |       |   |                   |  | Anasuning Stay active (varing | akuvitety    |
| Risk of bias legend               |            |    |       |                  |    |       |   |                   |  |                               |              |
| (A) Allocation concea             |            |    |       |                  |    |       |   |                   |  |                               |              |
| (B) Sequence Generation           |            |    |       |                  |    |       |   |                   |  |                               |              |
| (C) Blinding of outcome assessors |            |    |       |                  |    |       |   |                   |  |                               |              |
| (D) Other sources of bias         |            |    |       |                  |    |       |   |                   |  |                               |              |
| (E) Blinding of particip          | sonnel     |    |       |                  |    |       |   |                   |  |                               |              |
| (F) Selective outcome             |            |    |       |                  |    |       |   |                   |  |                               |              |
| (G) Incomplete outcor             | me data    |    |       |                  |    |       |   |                   |  |                               |              |

Forest plot of comparison: 1 Aflastning vs Stay active (vanlig aktivitet), outcome: 1.5 Sygefravær - antal sygedage.