Interventions to improve occupational health in depressed people

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Background

- · Depression negatively impacts ability to work
 - Absenteeism
 - Work functioning
 - Job loss
- · Symptom reduction vs. enhancing occupational health
- · Which interventions really work?





Interventions to improve occupational health

 Workplace interventions
Worker-directed interventions - Working hours

Job tasks

- Medication
 - Psychological interventions







Objective

To evaluate the effectiveness of interventions aimed at reducing work disability in depressed workers





Methods, inclusion criteria

Patients

- Workers Depressive disorder

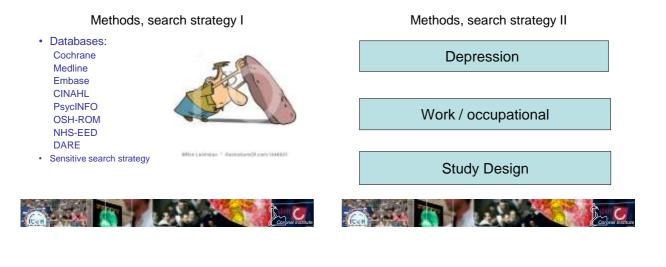
Interventions

- Interventions aimed at the workplace
- Worker-directed interventions
- Comparison (RCT or cluster RCT)
 - No treatment
 - Alternative treatment

Outcome

- Primary: Days of sickness absence
- Secondary: Employment status, work functioning, depression





Methods, search strategy III

Work / occupational

exp Occupational Therapy OR exp Occupational Diseases OR exp Occupational Medicine OR exp Disability Evaluation OR exp WORK OR return to work.mp. OR occupational

exp Disability Evaluation OR exp WORK OR return to work.mp. OR occupational therap\$.mp OR occupational intervention\$.mp OR supported employment.mp. OR employment.mp. OR

vocational rehabilitation.mp OR work capacity evaluation.mp. OR vocational guidance.mp. OR absenteeism.mp. OR occupational health services.mp.OR occupational health.mp. OR unemployed.mp. OR employed.mp. OR unemployment.mp. OR sick leave.mp OR

sick\$ absence.mp OR retirement.mp. OR disability pension.mp. OR occupation\$.mp. OR job.mp. OR vocational.mp.



Methods, data collection

 Two authors: Selection of studies Assessment of quality Data extraction



· Contacting authors



Methods, data synthesis

- Absenteeism: variations in reporting: Days vs. hours
 Number absent vs. worked
 Different time-spans
- · Transformation "days worked" into "days absent"
- Standardized Mean Differences: <u>Mean group 1 – Mean group 2</u> Pooled standard deviation both groups

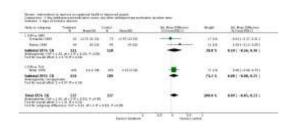


Included studies

- S
- 11 studies, all worker directed:
 - 10 clinical interventions (medication, psychological treatment, enhanced primary care)
 - 1 clinical and work focus: psychiatric intervention + occupational therapy

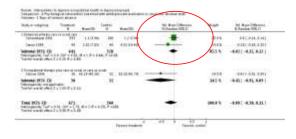


Results I: SSRI vs. other medication





Results II: enhanced vs. regular primary care





Results III

- · Limited evidence based on 1 study:
- Psychodynamic therapy + TCA medication > TCA alone
- No evidence of an effect based on 1 study:
- Computerised cognitive behavioural therapy vs. general practitioner
- Problem Solving by mental health nurses vs. general practitioner

What did it take?

- Title registration
- Protocol acceptance
- · Sensitive search strategy
 - 6392 hits: scanned titles and abstracts - 100 full-text papers - 11 included studies
- Data extraction, contacting authors
- Meta analysis
- Review acceptance





Was it worth all the trouble?









Changing the world one tiny bit

- "no depression treatment (among which Cymbalta) has been shown, to our knowledge, to directly influence the prevention of premature retirement nor the shortening of sick leave (3)."
- 3. Nieuwenhuijsen et al, Cochrane Database of Systematic Reviews 2008, issue 2, Art No CD006237

Recommendations

- Including occupational outcomes in clinical studies
- Need for intervention studies:
 - work-directedWorker-directed but with work focus



· Need for standardised validated absenteeism measure





Questions?



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"Researchers investigating occupational health interventions are responsible for reporting in a way that is suitable for Cochrane reviews"





