

Faster return to work after psychiatric consultation for sicklisted employees with common mental disorders compared to care as usual. A randomized clinical trial

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Introduction: Return to work (RTW) of employees on sick leave for common mental disorders may require a multidisciplinary approach. This article aims to assess time to RTW after a psychiatric consultation providing treatment advice to the occupational physician (OP) for employees on sick leave for common mental disorders in the occupational health (OH) setting, compared to care as usual (CAU).

Methods: Cluster randomized clinical trial evaluating patients of 12 OPs receiving consultation by a psychiatrist, compared to CAU delivered by 12 OPs in the control group. 60 patients suffering from common mental disorders and \geq six weeks sicklisted were included. Follow up three and six months after inclusion. Primary outcome measure was time to RTW. Intention-to-treat multilevel analysis and a survival analysis were performed to evaluate time to RTW in both groups.

Results: In CAU, referral was the main intervention. Both groups improved in terms of symptom severity and quality of life, but time to RTW was significantly shorter in the psychiatric consultation group. At three months follow up, 58% of the psychiatric consultation group had full RTW versus 44% of the control group, a significant finding ($P = 0.0093$). Survival analysis showed 68 days earlier RTW after intervention in the psychiatric consultation group ($P = 0.078$) compared to CAU.

Conclusion: Psychiatric consultation for employees on sick leave in the OH setting improves time to RTW in patients with common mental disorders as compared to CAU. In further research, focus should be on early intervention in patients with common mental disorders on short sick leave duration. Psychiatric consultation might be particularly promising for improvement of RTW in those patients.

Trial registration number: ISRCTN: 86722376

Keywords: psychiatric consultation, mental disorders, RCT, sickness absence, major depressive disorder, anxiety disorder, somatoform disorder

Introduction

Sickness absence is a major public health and economic problem, as stated by Henderson et al in their editorial.¹ Prolonged absence from work and work disability is called the major public health problem in the western world and leads to social deprivation of patients and their families. Long-term sickness absences cover more than a third of total days lost and up to 75% of absence costs. The contribution of psychiatric disorders to sickness absence has increased remarkably, and nowadays, they account for more

incapacity benefit claims than musculoskeletal disorders. Common mental disorders, such as depression and anxiety, contribute most to this rising sickness absence.¹ While absence from work may provide the patient with more time and opportunity to engage in activities that could contribute to recovery (ie, psychotherapy) and while it may remove the patient from occupational stressors, there are disadvantages to (prolonged) sickness absence.² The ability to work is an important aspect of people's quality of life.³ For patients, prolonged absence from work increases the risk of isolation and reduces meaningful activity.⁴ Furthermore, the patient may become anxious to return to work, doubting his own competence and fearing that co-workers will respond with resentment or pity.² Longer absences are associated with a reduced probability of eventual return to work (RTW) and with subsequent economic and social deprivation.^{1,2} Thus, return to work RTW is a very important parameter in occupational health care research.

Common mental disorders, ie, depressive disorders, anxiety disorders and somatoform disorders, are the most prevalent mental disorders. The 12-month prevalence of depression and anxiety are respectively 4.2%–7.6% and 6%–12.4%.^{5,6} The prevalence of somatoform disorders is 16% within the Dutch primary care population⁷ and in international literature a prevalence of 16%–33% has been reported.⁸ Depressive, anxiety and/or somatoform disorders often co-exist.^{7,9,10} They come with the highest burden in terms of work absenteeism and utilization of health care services.^{11,12} Mental problems account for 30% of disability leave, and in the majority of cases, the employees have never been diagnosed or treated by a psychiatrist.¹³ In case of depressive disorders, 80% of the costs of this disorder are caused by production loss.¹⁴ People with major depressive disorders (MDD) are absent from work eight to nine times as much as people without these disorders.^{15,16} Complaints of the musculoskeletal system constitute another 40% and have been suggested to be possibly partly caused by unrecognized somatoform, depressive or anxiety disorders.¹⁷ Anxiety disorders such as generalized anxiety disorder (GAD) and panic disorder (PD) also have a high societal impact.¹⁸ Moreover, work absences caused by mental disorders on average have a longer duration than absences caused by physical illness.^{19,20}

Guidelines for evidence-based treatments are available for depressive disorders, for anxiety disorders and for somatoform disorders.^{21–26} However, patients with these disorders are often offered inadequate diagnostic and therapeutic help.²⁷ Also, current research shows that a reduction in symptoms does not automatically lead to recovery of functioning at work.^{28–30}

In order to achieve a more rapid and more lasting RTW in patients with mental disorders, a focus on functioning at work is essential.^{29–31} However, until now, there has been little research on interventions for patients with common mental disorders specifically aimed at RTW.³² Guidelines for mental disorders in occupational health (OH) have been developed by the Netherlands Society of Occupational Medicine (NVAB): the guideline for mental complaints,³³ and, supplementary to the multidisciplinary guideline for diagnosis and treatment of depression, a module for depression and work.²⁶ For somatoform disorders, a guideline has also been developed for the occupational setting.³⁴ The NVAB guideline for mental complaints focuses on stress and adjustment disorders in relation to the process of returning to work, functioning and treatment of work-related problems. However, adequate recognition, treatment and criteria for referral for treatment of mental disorders other than adjustment disorders, is not a focus of the guideline. Because of the important role of occupational physician (OPs) in reducing sick leave,³⁵ an intervention might be most effective if administered by someone close to the workplace.^{28,36,37} However, OPs in general do not have sufficient knowledge of diagnosis and treatment of mental disorders, as their guidelines focus on a process approach aimed at RTW, and on advice to refer patients to a mental health professional or back to their general practitioner (GP) in case of mental problems. In addition, mental health professionals working in primary care or in mental health institutions in general are not adjusted to accommodating workers who need an intervention aimed at RTW. Therefore, for improvement of occupational rehabilitation of employees on sick leave for mental disorders, a multidisciplinary approach may be needed, in which the domains and competences of OPs and psychiatrists are combined. For this purpose, a psychiatric consultation model might be useful. Psychiatric consultation has been proven effective in the general practice setting in supplying patients with mental disorders with adequate treatment outside of the mental health setting.^{38,39} It might also be effective in the OH setting. Therefore, in this study, the concept of psychiatric consultation with a focus on RTW in the OH setting is explored. Treatment is administered by the OP, after consultation by a psychiatrist. Stimulating patients to return to work requires an activating intervention that encompasses specific interventions tailored to the needs created by the specific common mental disorder that the patient suffers from. The primary aim of the current study is to test the effectiveness of psychiatric consultation aimed at diagnosis and treatment of common mental disorders in employees on sick leave with a focus on RTW, as compared to care as usual (CAU).

Method

Design

The study is a two-armed cluster-randomized pragmatic clinical trial with computer-generated random allocation between OPs. The study was performed in collaboration with two occupational health services (OHS) related to various companies. All OPs, in the intervention and in the control group, followed a training program aimed at diagnosis and treatment of patients with common mental disorders on sick leave. As this intervention cannot be blinded, OPs might apply techniques with control patients that they learned to apply with intervention patients. Randomization between OPs eliminates the danger of this contamination. OPs were allocated to the intervention or CAU group by cluster randomization which was executed after baseline measurement by an independent blinded assistant, using consecutive envelopes with computer-generated random allocation. The sequence was concealed until interventions were assigned by an independent blinded research assistant. The outcome parameters were collected using a self report questionnaire by a blinded research assistant. This procedure has been reported in detail elsewhere.⁴⁰ Informed consent was obtained from patients in the study after the nature of the procedure had been fully explained to them. The study was approved by a medical ethical committee (METIGG). The design and methods of this study are described extensively elsewhere.⁴¹ Data are reported according to the CONSORT statement.^{42,43}

Hypothesis

In a randomized controlled study comparing psychiatric consultation with CAU by the OP, patients will show greater improvement in the intervention group in terms of time to RTW.

Patient selection

All patients who had visited the OP within the last six months were selected from the files and received an information letter describing the purpose of the study together with an informed consent letter for the screening procedure and baseline questionnaires. Additionally, OPs could recommend patients to participate, and they then received the informed consent letter together with the baseline questionnaires. In order to reduce selection bias as much as possible, OPs were informed about their randomization status after inclusion of at least four patients or after a maximum time lag of four weeks after the first inclusion.

Inclusion

Patients were included after at least six weeks absenteeism, no plan for RTW within another six weeks, and a positive screen on either the Patient Health Questionnaire (PHQ) or the Whately Index (WI). A PHQ positive screen was determined as a cut off score on one of the subscales of the PHQ as follows: cut off scores >8 at the depression subscale, eight or higher on the PHQ subscales for PD or >3 on the GAD subscale of the PHQ.^{44,45} A WI positive score for somatoform disorders was determined as a cut off score of >3 .⁴⁶

Exclusion

Employees were excluded from the study if they were suicidal, addicted to drugs or alcohol, psychotic, or suffering from dementia. They were also excluded if they had insufficient knowledge of the Dutch language to complete the questionnaires. Employees who were involved in a legislative procedure for unemployment compensation or who had been on sick leave for longer than 52 weeks were also excluded.

Intervention

In the present study the following elements are central: (1) training of OPs in diagnosis and treatment of employees with depressive disorders, anxiety disorders or somatoform disorders; (2) supportive psychiatric consultations aimed at delivering a diagnosis and treatment plan, including suggestions for RTW adapted to the specific needs of the patients due to their specific disorder; and (3) training of the consultant psychiatrists to provide not only a diagnosis and treatment plan, but also to provide suggestions for successful strategies aimed at improvement of work functioning in view of the limitations of their mental disorder.

All participating OPs received a training in diagnosis and treatment of common mental disorders, given by a psychiatrist (CFC) and an OP (RH) of the research group. Six psychiatrists were trained in performing the consultations. Their training included providing diagnosis, treatment plans and suggestions aimed at RTW specifically tailored to the mental disorder at hand, by a consultation method in which the psychiatrist speaks to the patient once and reports to the OP by consultation letter. Training was based on a model previously developed for the primary care setting.⁴⁷ The coordination of the follow-up care was the responsibility of the OP. In the intervention group, patients received a consultation by two of the trained psychiatrists in support of the care delivered by the OP; in the CAU group, patients received CAU from their OP.

Clinical outcome measures

All the clinical outcome measures were self-administered and assessed at baseline, at three months, and at six months. Primary outcome was time to RTW assessed with item nine of the Medical Outcomes Study Short-Form-20 in combination with the follow up assessment date on the questionnaire.⁴⁸ Complementary to the self report on RTW, we received the date of the sickness report and period to RTW from the database of the OHS. If needed this was also checked at follow up by an interview by one of the researchers (HD); the patient information was leading in this assessment. Special attention was given to finding out if RTW was full and lasting RTW. Time to (lasting) RTW is defined as the period between the onset of sickness leave due to the mental disorder at hand and full RTW, for at least four weeks without partial or full relapse. The total number of days of sick leave at entrance in the study was checked by baseline questionnaire.

Secondary outcome was quality of life assessed with the EuroQol (EQ-5D).⁴⁹⁻⁵¹ Another outcome was severity of the depressive, anxiety and/or somatoform symptoms measured with the subscales of the Symptom Checklist (SCL-90).⁵² Finally, data were assembled on the diagnosis and recommendations given during the psychiatric consultation by a medical audit form filled in after the consultation by the psychiatrists.

Sample size

In the present study, cluster randomization between OPs, and a multi-level analysis (MLA) with OPs at the first hierarchical level and patients at the second level, is used. The primary outcome measure on which the power calculation is based is time to RTW. We assumed that half of the sick listed employees would not return to work during the follow up time of six months, and that of the remainder, a hazard ratio (HR) of 2.0 (ratio of RTW rates of the intervention group versus the CAU group) would be the smallest clinical and societal relevant ratio. This HR is based on HRs found in comparable studies in primary care on stress-related mental disorders.^{53,54} The power calculation is based on the design effect. This is the factor needed to enlarge the total sample size to reach a same standard error one would reach using a randomization between research subjects and a general linear model (GLM) analysis in the sample. The formula is:⁵⁵

$$\text{Design effect} = 1 + (n - 1)\rho_1$$

where n = the mean sample size on the second hierarchical level (patient level in this instance) and ρ_1 = the intraclass correlation.

If a GLM with repeated measures would be used in a study with randomization between patients, with a variance of 1.0, then a sample size of 2×10 would be needed for a power of 0.90. An intraclass correlation of about 1.0 would be acceptable as presumption if the contrast between the experimental conditions would be rather high, that is if the practiced CAU would be different than the consultation intervention as performed in the different practices. We presume that this is the case, as psychiatric consultation to OPs as performed in the present study is a new method for the Netherlands and differs substantially from normal standards of care.²⁰ Under these assumptions, in a MLA study such as this one, with a standard deviation (SD) of 1.0, and a mean number of six patients per OP, this would result in a design effect of six. That would mean that N should be multiplied by six as compared to the number needed for a power of 0.90 in patient-randomised GLM analysis. If in such a study a standardized difference of 1.0 should be detected, a sample size of 2×60 would be needed in order to detect a clinically relevant significant HR of 2.0 of RTW rates as compared to the rates in the control group. With a design effect of 6, a sample size of 2×60 would thus be needed. This is the sample size that we aimed at in the current study.^{56,57}

Data analysis

Intention to treat analysis was performed. Propensity scores were calculated using logistic regression analysis in order to correct for possible bias introduced by the cluster randomization process. After that, MLA was performed with three hierarchical levels: practice level, patient level and time level, with correction for propensity in order to check for possible randomization or selection bias. MLA was applied in order to establish the variance at practice level. Kaplan–Meier analyses were used to describe the association between the sick leave duration in both groups until full RTW and the group allocation. To analyse the HR of the RTW rates the Cox proportional hazard model was used. Chi square tests and a survival analysis were performed on time to RTW in both experimental conditions with the parameters onset of sick leave, and RTW assessed at 3 and 6 months follow up. In the analysis, time lag between onset of sick leave and the intervention was considered as an effect modifier.

Results

The flow chart of the study is shown in Figure 1. In the original study design, 40 OPs from two OH setting would participate in the study. Indeed, 41 OPs were trained to participate in the study. Unfortunately, at the start of the inclusion phase, due

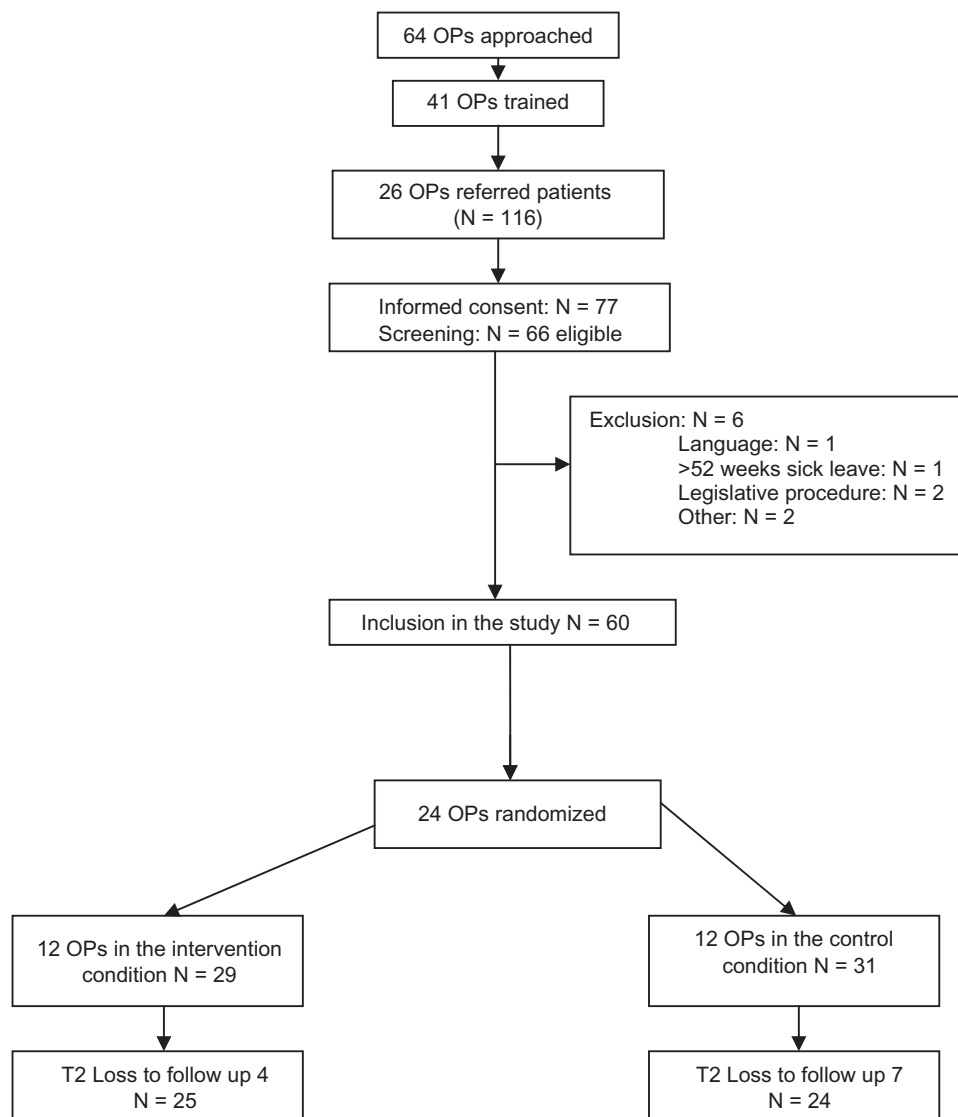


Figure 1 Consort statement flow-chart of trial.
Abbreviation: OP, occupational physician.

to a massive company reorganization with >1000 layoffs of employees, including OPs, one of the OH companies had to cut down on the planned trial collaboration, so that only 26 of these OPs started to refer patients. Because of exclusion of patients, only 24 OPs included patients and were randomly allocated to the intervention or CAU group. In a later phase, still more layoffs occurred and the OH company was obliged to withdraw from participation in the study altogether. Therefore, patient referral for the study was limited to 116. Of 116 referred employees on sick leave, 77 gave informed consent. Of these, 66 patients screened positive, but 6 had to be excluded for various reasons as mentioned in the flowchart, leaving 60 patients included for the trial. There was no loss to follow up at three months. At six months, loss to follow up was 11 (16%). The demographic and baseline characteristics are shown in Table 1.

The mean age was 42 years, range 24–59. The majority were married or living together. Their educational level was fairly high. The demographic characteristics did not significantly differ between the treatment groups. At baseline, MDD and PD as assessed by PHQ were most prevalent. Comorbidity between MDD and anxiety disorders was high. The time between the first day of absenteeism and inclusion in the study ranged from 1–46 weeks with a mean of 144 days in both groups. Baseline characteristics did not differ significantly between the groups either.

International Standard Classification of Occupations codes of occupational category⁵⁸ were available for 39 patients contributing to the study. The division was as follows: 7/39 (18%) were legislators, senior officials and managers; 6/39 (15%) were professionals, 6 were craft and related trades

Table 1 Characteristics at baseline

Variable	Subcategory	Total (N = 60) % M	Control (N = 31) % M	Intervention (N = 29) % M
Mean age		Range 24–59 42	42	42
Gender (male)		42	36	48
Civil state	Single	18	23	14
	Married/living together	62	55	69
	Divorced	18	23	14
Level of education	Low	12	17	7
	Middle	47	47	50
	High	38	37	43
Depressive disorder*	Major depressive disorder	39	35	37
	Other depressive disorder	15	13	17
Anxiety disorder*	Generalized anxiety disorder	13	19	7
	Panic disorder	25	29	21
Somatoform disorder**		58	55	62
Comorbidity between depressive and anxiety disorder*		77	71	83

Notes: *Assessed with the Patient Health Questionnaire . **Assessed with the Whitely Index.

workers, and 6 were technicians or associate professionals; 5/39 (13%) were clerks, 5 were service workers and shop and market sales workers; 4/39 (10%) were manual laborers. Agriculture and fishery workers as well as plant and machine operators were not represented.

Psychiatric consultation

Psychiatric consultation was performed in the intervention condition, most often between baseline assessment and three months follow up. Two of the six trained psychiatrists were available for the consultations. They would see the patient for the diagnostic interview or perform the interview by telephone, depending on which was more convenient for the patient. During the consultation, the psychiatrist made an inventory of treatments offered to the patient before, and decided together with the patient, if more intensive treatment was needed. This depended on the severity of symptoms, on the perceived well being of the patient and on the level of general functioning as indicated by the Global Assessment of Functioning (GAF) score on Axis V of the *Diagnostic and Statistical Manual of Mental Disorders*, 4th Edition (DSM-IV).⁵⁹ This system of allocation of care dependent on GAF score has been described more extensively elsewhere.⁶⁰ If necessary, the treatment step was followed up by a step to improve the outcome. This form of process monitoring is a way to practically implement stepped care according to multidisciplinary guidelines. The tool as used by the consultant psychiatrists is derived from an algorithm as previously

described in another study.⁶¹ As it turned out, it was found that in most cases, referral to mental health professionals for some kind of treatment had already occurred, but the mental disorder was not yet in remission. In most cases therefore, advice for change of treatment was given according to the stepped care algorithm.

Care as usual

In the CAU condition, referral to specialty mental health care professionals was the most frequent treatment mode. This occurred most often between baseline assessment and assessment at three months follow up.

Propensity scores

In order to correct for possible bias due to the cluster randomization procedure, propensity scores were calculated. Variables that turned out most predictive in treatment assignment were baseline income and baseline functioning. These combined variables gave a 20% improvement over the expected 50% treatment assignment propensity. In the following MLA analysis, the patient propensity scores were used as a covariate.

Clinical outcomes

In the MLA, the variance of the first hierarchical level, OP practices, was almost zero. OPs did not have an impact on the outcome. Other possible confounders, namely age and gender, were checked but turned out to have no impact on the variance. Although total SCL90, Quality adjusted life-year

Table 2 Mean differences in clinical outcomes between baseline and 6 months FU in both groups

Outcome measure	PC (SD) N = 21	CAU (SD) N = 23	B (CI)	P
PHQ9	-4.00 (6.94)	-4.708 (4.53)	0.913 (-2.62;4.45)	0.605
PHQ15	-4.05 (5.08)	-3.750 (4.17)	-0.178 (-3.01;2.66)	0.900
SCL-90	-2.475 (0.73)	-0.305 (0.50)	0.03 (-0.35;0.41)	0.872
QALY	0.378 (0.06)	0.374 (0.11)	0.005 (-0.05;0.06)	0.869

Abbreviations: PC, psychiatric consultation; CAU, care as usual; PHQ, patient health questionnaire; QALY, quality adjusted life-years; SCL-90, symptom checklist-90; CI, confidence interval.

(QALY) and PHQ improved in both groups, there was no significant difference on these outcomes between the experimental conditions as shown in Table 2. Educational level was positively related with positive outcome, but there was no significant difference between both treatment groups.

RTW

Data were checked for recurrence of sick leave after initial RTW, but in none of the cases such a relapse occurred, so if RTW occurred, it was fulltime and sustained RTW in this study. The results for RTW differed among both groups and are shown in Table 3. RTW measures were evaluated as number of days to RTW counted from baseline. At three months

Table 3 Outcomes for RTW

Experimental condition	Baseline N (and % of baseline) of patients on sick leave	FU 3 months N (and % of baseline) of patients with RTW	FU 6 months N (and % of baseline) of patients with RTW
CAU (N = 25)	25 (100%)	11/25 (44%)	21/25 (84%)
PC (N = 26)	26 (100%)	15/26 (58%)	22/26 (85%)
p (comparing CAU with PC)		0.0093 (sign)	0.0574 (n.s.)

Abbreviations: PC, psychiatric consultation; CAU, care as usual; FU, follow up.

follow up, 58% of the psychiatric consultation group had full RTW versus 44% of the control group, a significant finding ($P = 0.0093$) At the end of the six months follow up period, RTW was 84% in the control group and 85% in the psychiatric consultation group, which was no longer a significant difference ($P = 0.0574$); apparently, RTW occurred in the CAU group as well, but later than in the psychiatric consultation (PC) group. No interaction was found with duration of sick leave before inclusion. In general the duration of sick leave before inclusion in the study was long, mean 144 days. A survival analysis showed that RTW occurred 190 days after the intervention (95% confidence interval [CI]: 134–246) in

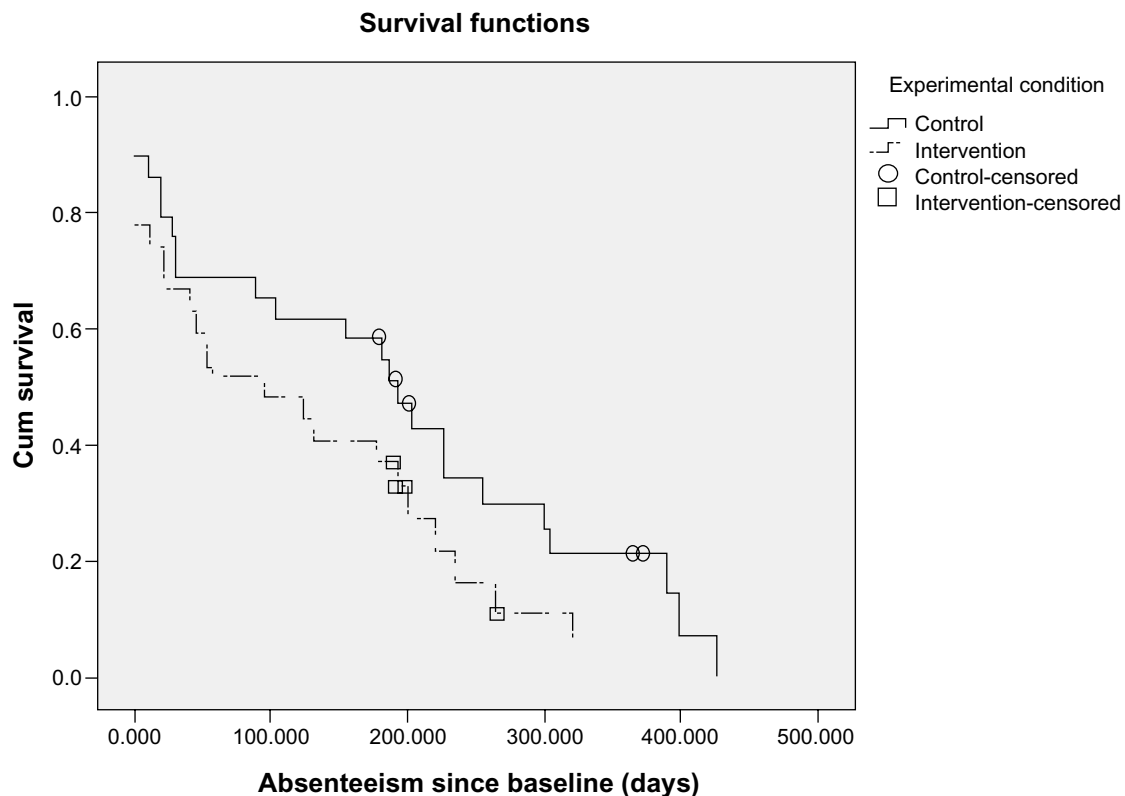


Figure 2 Kaplan–Meier survival curve.
Notes: Vertical axis: time to RTW. Horizontal axis: number of days since intervention.

the control group and 122 days after the intervention (95% CI: 77–166) in the psychiatric consultation group, a difference of 68 days (Chi square, 3.101; df 1, $P = 0.078$). The Kaplan–Meier curve is shown in Figure 2. Note that the curves indicate the probability of absenteeism. Thus, absenteeism times show a statistical trend (0.078) to be longer in the control group, and the chance on absenteeism is larger in the control group than in the intervention group.

Discussion

Main findings of the study

This study is the first randomized clinical trial evaluating efficacy of psychiatric consultation in the OH setting in sick-listed employees with common mental disorders. It reports significantly faster RTW after psychiatric consultation at three months follow up. A higher proportion of workers had achieved RTW by three months in the psychiatric consultation group, namely 58% versus 44% in the CAU group. At six months follow up there was no difference between the intervention and control groups in the proportion of workers who had achieved RTW. At that time, in the CAU group, referral to mental health specialists had occurred and 85% had returned to work in both groups, likely reflecting a ceiling effect. The survival analysis showed that RTW was 68 days faster in the psychiatric consultation group ($P = 0.078$). This was a statistical trend, probably due to the fact that the number of included patients was inadvertently lower than planned in this study. Still, the fact that in this small study the main finding is significant, with a very impressive difference in work absence of 68 days, is of high clinical relevance. The essential finding of this study is therefore that it is possible to achieve faster work return through psychiatric consultation in which the psychiatrist gives the OP advice about treatment, embedded in OP training.

Study limitations

In this pragmatic randomized clinical trial, efficacy of psychiatric consultation versus CAU was evaluated in terms of time to RTW and in terms of severity of symptoms. The study was hampered seriously by the fact that during the study one of the collaborating OH companies had to stop collaboration due to serious recurring reorganizations and layoffs. For this reason, the number of included patients aimed for could not be attained. The study population was smaller than anticipated. As a consequence the study may have been underpowered to show small differences.

Another aspect of this pragmatic trial was that CAU was an active intervention, the main intervention in the CAU condition being referral to mental health specialists. This can

be explained by the fact that the OPs, by their collaboration to the training program and the inclusion for the study, became aware of the fact that the patients that they selected for the study could have mental disorder. If this turned out to be the case, they often referred the patients for treatment if the patient did not receive psychiatric consultation. Therefore, effects that could be found were probably smaller than in case of a non-active control group. Indeed, in the MLA, both psychiatric consultation and CAU, which was often referral, were shown to be effective in terms of improvement symptom severity and quality of life.

Another limitation of the study was that as a mean, patients were on sick leave for a long time before being included in the study, which may have made it more difficult to return to work within the follow up time frame of six months for some patients. If the study would have had a longer follow up period, outcomes might have been different. Also, time between the first day of absenteeism and inclusion in the study varied from 1–46 weeks with a mean of 144 days. It might be possible that the intervention would be more effective if started earlier in the sick leave period.

Another limitation of the study is that participants were selected from the files and encouraged by their OP to participate. Although the criteria by which they were selected were clear cut, and this process was duplicated by the coordinating OP, this might have lead to selection bias. However, a propensity score analysis was performed and no indications for selection bias were found in this analysis.

Another limitation of the study is that although thorough follow up was performed by questionnaire, by telephone interview by a research assistant, and by checking of date of RTW in files of OP, dates of RTW could be obtained in terms of weeks, not days. However, these estimates were robust enough to enable an analysis with significant result in terms of differences between both experimental conditions.

Furthermore, no active supervision was performed over the compliance of the OP with the consultation advice. The intervention might have been more effective if this would have been the case, as OPs are not used to treatment of mental disorders such as depressive disorders, anxiety disorders and somatoform disorders; in their guideline, most attention is paid to treatment of adjustment disorders.

Strengths of the study

Notwithstanding the limitations mentioned above, a significant effect could still be established in terms of time to RTW. In the psychiatric consultation group, RTW occurred significantly sooner within a time frame of three months

follow up. Furthermore, a survival analysis found that RTW occurred 68 days faster in the psychiatric consultation group, which was a trend in terms of level of significance. So, despite the small size of the study, it could be established that psychiatric consultation enhances RTW at a faster rate compared to CAU, which consisted in most cases of referral. The fact that still a significant effect could be found despite the limitations of the study suggests that the effect of psychiatric consultation on RTW can be substantial. The fact that the time to RTW is shorter in the psychiatric consultation group if counted from the inclusion, but that this is not significant, might be explained by the fact that the sickness absence was already a mean 144 days at the moment of inclusion. However, 68 days faster RTW means an almost 10 weeks faster RTW in the psychiatric consultation group. Moreover, this is fulltime RTW without relapse in a follow up period of 6 months. This finding comes on top of an improvement in severity of symptoms and in quality of life that was established in both groups. This makes this study of high clinical relevance.

The care provided in the psychiatric consultation group followed a collaborative care approach: patient tailored care executed within a team of, in the current study, the OP, the patient, the consulting psychiatrist, and in some cases a GP. This is a complex intervention that proved effective in the primary care setting and that also turned out to be feasible in this setting. It also turned out to be just as effective as CAU, most often consisting of referral, in improving symptoms and general functioning, and more effective in improving time to RTW. In addition, it is possible that the training program contributed to the effectiveness of the CAU.

Several mechanisms may play a role in the effectiveness of the psychiatric consultation in enhancing faster RTW. The consultation advice may have had influence on treatment by the GP or on monitoring of sick leave by the OP. The psychiatric consultation also might have had an effect in itself. This could have to do with the establishment of a diagnosis and sharing this information, and information about possibilities for treatment, with the patient and his or her GP and OP. Or it might have to do with the effort to give recommendations for RTW in line with the established diagnosis of the mental disorder at hand. As this is a cluster randomized trial, a correction for possible doctor variance (practices) was made. It was shown that it did not make any difference to the effect size which doctor gave the treatment. Apparently the effect of the intervention stands for itself.

Clinical implications

Psychiatric consultation is a promising approach that should probably be administered in the OH setting as early as

possible in sick leave due to common mental disorders. RTW can be considerably faster if collaborative care networks are set up in the OH setting in which the OP and a consultant psychiatrist work together in diagnosis and treatment of common mental disorders.

Research implications

These findings warrant further research of psychiatric consultation in employees on sick leave with mental disorders. In research aimed at evaluation of RTW, a follow up method should be developed enabling more precise monitoring of dates and extent of RTW. An early intervention should be evaluated and specific attention to time to RTW is needed. A trial is underway to establish RTW and cost effectiveness of such a collaborative care model for depressive disorder in the OH setting.³⁶

Policy implications

For insurance companies covering absenteeism, the shorter time to RTW established by psychiatric consultation might enhance the willingness to arrange for easily accessible psychiatric consultation for the OP setting in an early phase of sickness absence due to common mental disorders. For companies, faster RTW leads to lower costs and enhanced productivity. This will enhance the willingness of employers to invest in contracts providing such psychiatric consultation care for their employees.

Acknowledgments and disclosure

- The authors of this article have no financial interest related to this research.
- Ethics approval for this trial was given by the METIGG Ethical Medical Committee.
- This trial was funded by the Aladdin research program and the sponsors did not play a role in the collection, analysis, and interpretation of data; in the writing of the report; and in the decision to submit the article for publication.
- The researchers were independent from funders.

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