Psychology Research and Behavior Management

Day treatment of patients with severe work-related complaints

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Abstract: A day treatment program was developed for patients suffering with severe work-related complaints who were unable to function at work because of this. The program consisted of a number of treatment modalities, including Cognitive Behavioural Therapy, protocolized nonverbal therapies, and activation. The main objective of all these therapies was to analyze participants’ personal qualities and vulnerabilities when functioning at work and to teach them new coping strategies and social skills to reduce their vulnerability in stressful situations. The results of the program were assessed in terms of scores on a number of self-rating questionnaires and hours spent at work. In a follow-up assessment one year after the original program had finished, we found a significant reduction in complaints and an increase in the number of hours spent on the job. At the start of the program, patients worked 25.2% of their contracted hours; a year later, this had increased to 77.3%. Even though this natural field study has its limitations, the results of the day treatment program seem very promising.

Keywords: work-related stress, burnout, day treatment

Introduction

Work is known to play an important role in psychological health and well-being. Job dissatisfaction may lead to work-related stress and psychological and physical dysfunction. In The Netherlands, absence due to sickness caused by work-related psychological problems is a serious problem. About one third of cases where people are unable to work are the result of mental problems. In 36% of these cases, work pressure and work-related stress are the initial reasons for being absent from work, and 10% are caused by conflicts with colleagues, management, or both.

In The Netherlands, employees with health problems who are unable to continue working because of mental or physical complaints or both see their company physician. This physician either refers the patient elsewhere, orders sick leave, or does both. In the Dutch health care system, both the sick employee and the employer have to do everything in their power to improve the employee’s health. The employee’s wages (sometimes reduced) continue to be paid by the employer for a maximum period of 2 years. Treatment is paid for by the health care insurance system, as all Dutch inhabitants have obligatory health insurance.

Not only do stress and emotional exhaustion lead to impaired functioning on the job, but also to other problems, such as a significant increase in sickness-related absences. The most common work-related complaint is burnout, which has become a serious social problem from which approximately 4% of the Dutch working population suffer.
The term burnout is introduced as a metaphor for the work-related state of being emotionally exhausted and over stressed. By definition, burnout complaints are associated with job dysfunction. People who complain of severe burnout are often unable to continue their normal work routines. Burnout is a prolonged response to chronic emotional and interpersonal stressors on the job, and is characterized by three dimensions: emotional exhaustion, depersonalization, and reduced personal accomplishment. The symptoms of burnout syndrome overlap with those of a number of other psychiatric syndromes, particularly depression and emotional exhaustion. In a meta-analysis, Glass and McKnight concluded that burnout and depressive symptoms were not just synonyms for the same dysphoric state; nor were they mutually exclusive concepts (see also). Also, recent electroencephalography results for burnout patients have suggested burnout is a clinical syndrome in its own right.

Although severe burnout constitutes an emotional state with serious consequences for the individual, this syndrome has not — so far — been included in any psychiatric classification system. For this reason, professional staff members at mental health care institutions are often confused about accepting and understanding the diagnosis of burnout syndrome. Therefore, they are pragmatic in their choice of psychiatric diagnoses from a classification system and choose the syndrome that has the largest overlap of symptoms with burnout complaints. A commonly used definition in the diagnosis of burnout syndrome is the International Classification of Diseases (Tenth Revision) diagnosis of work-related neurasthenia, or alternatively that of undifferentiated somatoform disorder from the Fourth Edition of the Diagnostic and Statistical Manual of Mental Disorders (DSM-IV), because all share the major problem of exhaustion.

Although there is little empirical evidence of successful treatment of burnout, activation and cognitive behavioral therapy (CBT) are common treatment strategies. These are administered in outpatient clinics or in protocolized programs offered by specialized therapists. Patient benefits from this type of program vary greatly.

We developed a day treatment program for patients with severe work-related psychological complaints who were not expected to derive adequate benefit from an outpatient program or who desired a more intensive type of treatment. We included patients with different types of work-related psychological problems, not just people suffering from burnout.

The goal of the treatment was to analyze participants’ personal qualities and vulnerabilities when functioning on the job and to teach patients new coping strategies and social skills that would make them less vulnerable in stressful situations. In this paper, we will describe the program, its participants, and the first treatment results.

Questions
In this natural field study, we wanted to find answers to the following questions. First, is the program effective when measured with self-rating scales at three different assessment times, but also when expressed in terms of the number of hours spent on the job? Second, what patient characteristics, if any, are related to treatment outcome?

We investigated the duration of sick leave, the presence or absence of psychiatric disorders according to the DSM-IV, sex, age, education level, and method of referral to the hospital.

Treatment
A day treatment program was developed based on the principles of CBT combined with protocolized nonverbal therapies and activation. After referral, patients were included in the program by an experienced clinical psychologist. Patients were allowed to take part if they had a job to return to. Patients with severe psychiatric disorders (for example, suicidal tendencies or psychoses) were excluded from the study.

After an intake session, patients were individually assessed in three ways. First, they were interviewed by a medical resident using a standardized semistructured psychiatric interview, the Mini-International Neuropsychiatric Interview (MINI), to obtain a diagnosis according to the DSM-IV criteria. Second, a vocational rehabilitation worker interviewed the patients about their work-related history and work situation using a semistructured interview schedule. Finally, patients filled out a battery of psychological questionnaires aided by a computer program.

The treatment program was offered to groups of 5–8 participants and consisted of nine 8-hour days over 13 weeks. Treatment was offered in two 4-week periods, during which time the entire group spent a whole day on the treatment once every week. Between the two periods, one or two individual sessions were scheduled in another 4-week period. In these individual sessions, the first steps of the reintegration process were taken. After this intermezzo, participants were expected to be actively involved in their reintegration process and group treatment continued with the second period. The program finished by the end of the second period. Four weeks after the program ended, a booster day with cognitive therapy, a reintegration session, and psychological assessments
completed the program. A follow-up session was scheduled to assess the effects of the treatment one year later. Patients filled out computer tests and participated in group sessions in which they reported about their work-related functioning.

The day program consisted of four 90-minute sessions. Between sessions, group members had coffee, tea, or lunch together without the therapists being present, making the total length of the treatment day 8 hours.

The first period
The program started with an introduction and psychoeducation, followed by psychomotor therapy, which was included for several reasons. Activation is known to be an effective treatment modality for people with burnout complaints. For this reason, a protocol was developed in which different aspects of working situations were practiced, such as cooperating with other people, coping with limited energy levels, and dealing with work pressure. These sessions were videotaped for feedback in the next session.

Cognitive therapy is an important part of the treatment, as is stress management (including time management and lifestyle aspects). In the first period, both strategies were included in the treatment every day. The qualities and limitations of patients’ functioning on the job were investigated and discussed in two additional sessions. Role playing was frequently used, together with videotaped feedback. One reintegregation session was also scheduled to prepare patients for the reintegration steps that were to follow the next period.

Between periods
After the first 4-week treatment period, a 4-week period without a group program was scheduled, in which participants took the first steps toward their reintegration process. One or two individual therapeutic sessions supported these steps.

The second period
After this intermezzo, the second part of the group program focused on aspects of the participants’ personalities that influence their functioning on the job. In additional sessions, interpersonal strategies related to coping with conflicts were employed using role play and videotaped feedback. Cognitive therapy continued during the second period. Art therapy was used as a nonverbal treatment procedure to gain insight into different aspects of functioning in a job (cooperating with other people, working with a dominant colleague, protecting their position, etc). Finally, sessions were held concerning the actual reintegration process and developing a relapse prevention plan, which was designed to protect participants from future relapses. Participants were also encouraged to look for a “job coach” from their own social circle who would be able to support them in their reintegration process during the following months.

Assessment procedures
In addition to the standardized interview used to assess a diagnosis from the DSM-IV, the following questionnaires were filled out.

UBOS
The Utrechtse Burnout Schaal (UBOS) is the Dutch version of the Maslach Burnout Inventory, which assesses job-related burnout complaints using three subscales: emotional exhaustion, depersonalization, and lack of professional accomplishment. These items all refer to the work situation.

SFQ
The Shortened Fatigue Questionnaire (SFQ) is a short, reliable, and easy-to-use instrument to determine the intensity of patients’ bodily fatigue.

BDI-II-NL
The BDI-II-NL, the Dutch version of the Beck Depression Inventory, was used to assess the severity of depressive symptoms.

SCL-90-R
The Symptom Checklist-90 Revised version is a self-report inventory designed to screen subjects for psychological distress and global psychopathology during the previous week. In addition to an overall score, this instrument contains eight subscales: anxiety, agoraphobia, depression, somatization, obsessive-compulsive symptoms, paranoid ideation, hostility, and sleeping problems.

IOA
The Inventarisatielijst Omgang met Anderen (IOA) is a self-rating questionnaire used to assess social skills in two ways: (1) the frequencies with which social skills are used in different social situations and (2) tensions experienced by the patient when social skills are used.

UCL
The Utrechtse Coping Lijst (UCL) is a self-report questionnaire that assesses the way people generally react if confronted with problems or unpleasant situations. It contains seven independent subscales: active problem
focusing (analyzing problems, acting confidently and in a purposeful way), palliative reaction pattern (looking for distraction, relaxation, seeking diversions), avoidance (avoiding involvement, adopting a waiting attitude), support-seeking (seeking comfort and sympathy), worrying (being preoccupied with problems, brooding, feeling unable to act), emotional expression (showing frustration), and comforting cognition (self-encouragement, creating soothing thoughts).

These psychological self-report questionnaires were filled out three times – before the start of the program, at the booster session at the end of the program, and during the follow-up procedure 1 year after the program had finished.

The actual hours participants went to work were registered at these assessment moments.

Participants
One hundred and seventy patients with severe work-related complaints started the program (83 males, average age 43.7 (±8.5) years; 87 females, average age 42.4 (±9.5) years); 14 dropped out and did not complete the program. Seven patients failed to attend the booster session and also missed the second psychological assessments. Thus, 149 patients completed both the program and the second assessment. Ninety-nine patients participated in the follow-up session. Twenty-seven patients failed to participate in this evaluation and 23 patients finished the program less than a year ago and were therefore excluded from the present study.

In the results section, we present data from all 170 patients who started the program. The calculations shown are from the 99 participants who were assessed three times (52 males, average age 44.4 (±8.2) years; 47 females, average age 42.9 (±9.3) years). Of these, 48.7% met the criteria of one or more DSM-IV diagnoses, as assessed using the MINI. Depression, 12.8%; dysthymia, 10.3%; panic disorder, 3.8%; post-traumatic stress disorder, 1.32%; alcoholism, 2.6%; agoraphobia, 6.4%; social phobia, 5.1%; obsessive-compulsive disorder, 6.4%; bulimia, 1.3%; and general anxiety disorder, 21.8%.

Sick leave varied from 0–110 weeks, with a mean of 30.4 weeks (±27.5) and a median of 21 weeks. Education levels were: low, 18.2%; middle, 32.3%; and high, 49.5%. Marital status was: married, 53.5%; divorced, 9.1%; living alone, 26.3%; living with a partner, 26.3%; living with a partner and child(ren), 41.4%; living with child(ren), 5.1%; and living with another person, 1%. Referral method was: occupational physicians, 34.3%; psychiatrist or psychologist, 29.3%; general practitioners, 29.3%; and others, 7.2%.

Most, but not all, participants suffered from burnout. Of the participants, 85% showed symptoms of emotional exhaustion, according to their UBOS scores, which differed from the scores in a normal population.

Statistics
Mean and median scores and effect sizes d, were calculated and a repeated measures ANOVA was used to calculate significance levels.

Results
We found a statistically significant reduction of complaints over time. The effect sizes of mood and energy scores on the questionnaires in particular are large (see Table 1). An effect size of 0.5 is considered to be a medium effect, and 0.8 or higher is a large effect. Social skills and behavior were also seen to improve over time. Coping strategies improved only very slightly to moderately.

Of the participants, 77.3% had reintegrated into their jobs and kept the original contract hours a year after finishing the program (see Figure 1).

Participants whose sick leave does not exceed 21 weeks’ duration show significantly better reintegration results after a year than those whose sick leave lasts more than 21 weeks. Patients with a combination of work-related problems and a psychiatric disorder show the same results as participants without psychiatric disorders. Sex, age, education level, and the method of referral did not influence the results in any way.

Discussion
This report describes a short but intensive day treatment program and its results for patients suffering from severe work-related psychological problems. Although all patients’ complaints were work-related, their symptoms were heterogeneous. Emotional exhaustion was common, but patients complaining of difficulties in conflict management without fatigue were also included. This protocolized program had as its main objective to reduce patients’ complaints and to teach patients new and more effective coping strategies. Besides the lack of homogeneity in complaints, it is also unclear whether one single intervention is responsible for treatment outcome. The program contained different training strategies and social skills exercises designed to reduce patients’ vulnerability in future stressful situations, such as CBT interventions, nonverbal therapeutic interventions, and activation. All these interventions highlighted different aspects of stress on the job and offered ways how to deal
Table 1 Results of the day treatment program for people with severe work-related complaints based on three assessments during and after the program

<table>
<thead>
<tr>
<th>Range</th>
<th>Before* n = 170</th>
<th>Before n = 99</th>
<th>After n = 99</th>
<th>Follow-up n = 99</th>
<th>% improvement</th>
<th>F</th>
<th>df</th>
<th>p</th>
<th>Effect size</th>
</tr>
</thead>
<tbody>
<tr>
<td>SCL anxiety</td>
<td>10–50</td>
<td>19.3 ± 6.8</td>
<td>18.3 ± 6.1</td>
<td>15.5 ± 4.9</td>
<td>14.4 ± 5.1</td>
<td>50</td>
<td>2.0</td>
<td>1.2</td>
<td>0.00</td>
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<td>SCL agoraphobia</td>
<td>7–35</td>
<td>10.2 ± 4.5</td>
<td>9.5 ± 3.6</td>
<td>8.3 ± 2.3</td>
<td>8.4 ± 3.0</td>
<td>44</td>
<td>1.1</td>
<td>1.2</td>
<td>0.00</td>
</tr>
<tr>
<td>SCL depression</td>
<td>16–80</td>
<td>34.4 ± 11.1</td>
<td>31.1 ± 10.7</td>
<td>26.2 ± 8.7</td>
<td>24.6 ± 9.8</td>
<td>49.7</td>
<td>3.4</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>SCL somatization</td>
<td>12–60</td>
<td>23.3 ± 7.9</td>
<td>22.8 ± 7.7</td>
<td>19.1 ± 6.5</td>
<td>18.4 ± 6.6</td>
<td>40.7</td>
<td>2.7</td>
<td>1.2</td>
<td>0.00</td>
</tr>
<tr>
<td>SCL obsessive compulsive</td>
<td>9–45</td>
<td>21.8 ± 7.2</td>
<td>21.0 ± 7.0</td>
<td>16.6 ± 6.1</td>
<td>15.2 ± 5.4</td>
<td>48.3</td>
<td>3.9</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>SCL paranoid ideation</td>
<td>18–90</td>
<td>30.7 ± 10.4</td>
<td>30.0 ± 9.0</td>
<td>26.2 ± 7.9</td>
<td>25.1 ± 8.3</td>
<td>40.8</td>
<td>1.5</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>SCL hostility</td>
<td>6–30</td>
<td>9.0 ± 3.2</td>
<td>8.8 ± 2.8</td>
<td>7.8 ± 2.3</td>
<td>7.5 ± 2.2</td>
<td>46.4</td>
<td>12.5</td>
<td>1.2</td>
<td>0.00</td>
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<td>SCL sleep problems</td>
<td>3–15</td>
<td>7.5 ± 3.2</td>
<td>7.0 ± 3.2</td>
<td>6.1 ± 2.9</td>
<td>5.3 ± 2.6</td>
<td>42.5</td>
<td>13.4</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>SCL-90 total</td>
<td>90–450</td>
<td>170.2 ± 47.1</td>
<td>164.3 ± 43.1</td>
<td>137.7 ± 37.6</td>
<td>130.5 ± 38.9</td>
<td>45.5</td>
<td>36.7</td>
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<td>0.00</td>
</tr>
<tr>
<td>BDI-II-NL</td>
<td>0–63</td>
<td>180 ± 8.7</td>
<td>176.6 ± 8.4</td>
<td>11.1 ± 7.7</td>
<td>8.4 ± 8.4</td>
<td>52.3</td>
<td>65.9</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>UBOS exhaustion</td>
<td>0–6</td>
<td>3.9 ± 1.4</td>
<td>4.0 ± 1.4</td>
<td>2.9 ± 1.4</td>
<td>2.4 ± 1.4</td>
<td>40</td>
<td>40.8</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>UBOS depersonalization</td>
<td>0–6</td>
<td>2.7 ± 1.6</td>
<td>2.7 ± 1.6</td>
<td>2.4 ± 1.5</td>
<td>1.8 ± 1.3</td>
<td>33.3</td>
<td>16.9</td>
<td>1.2</td>
<td>0.00</td>
</tr>
<tr>
<td>UBOS lack of professional accomplishment</td>
<td>0–6</td>
<td>3.5 ± 1.2</td>
<td>3.6 ± 1.2</td>
<td>3.8 ± 1.2</td>
<td>4.1 ± 1.0</td>
<td>13.9</td>
<td>10.7</td>
<td>1.2</td>
<td>0.00</td>
</tr>
<tr>
<td>SFQ</td>
<td>4–28</td>
<td>22.0 ± 5.6</td>
<td>21.6 ± 5.2</td>
<td>16.2 ± 7.0</td>
<td>14.2 ± 7.4</td>
<td>42</td>
<td>34.2</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>IOA-frequency</td>
<td>35–175</td>
<td>106.4 ± 15.0</td>
<td>105.2 ± 13.1</td>
<td>115.3 ± 16.2</td>
<td>116.6 ± 19.0</td>
<td>16.2</td>
<td>28.4</td>
<td>1.2</td>
<td>0.00</td>
</tr>
<tr>
<td>IOA-tension</td>
<td>35–175</td>
<td>71.3 ± 22.1</td>
<td>72.7 ± 21.7</td>
<td>61.2 ± 16.9</td>
<td>58.7 ± 19.7</td>
<td>37.1</td>
<td>33.3</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>UCL active problem focusing</td>
<td>7–28</td>
<td>175 ± 3.6</td>
<td>174 ± 3.3</td>
<td>186 ± 4.6</td>
<td>188 ± 3.5</td>
<td>13.5</td>
<td>13.0</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>UCL palliative reaction pattern</td>
<td>8–32</td>
<td>175 ± 3.3</td>
<td>174 ± 3.3</td>
<td>181 ± 3.0</td>
<td>176 ± 2.8</td>
<td>2.1</td>
<td>3.4</td>
<td>1.2</td>
<td>0.04</td>
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<td>UCL avoidance</td>
<td>8–32</td>
<td>16.9 ± 3.5</td>
<td>17.2 ± 3.6</td>
<td>16.3 ± 3.0</td>
<td>16.2 ± 3.7</td>
<td>10.9</td>
<td>7.9</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>UCL support seeking</td>
<td>6–24</td>
<td>125.3 ± 3.6</td>
<td>121.3 ± 3.6</td>
<td>136.3 ± 3.6</td>
<td>137.3 ± 3.6</td>
<td>26.2</td>
<td>16.95</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>UCL worrying</td>
<td>7–28</td>
<td>141 ± 3.5</td>
<td>143 ± 3.4</td>
<td>130 ± 3.5</td>
<td>123 ± 3.6</td>
<td>27.4</td>
<td>19.78</td>
<td>1.2</td>
<td>0.00</td>
</tr>
<tr>
<td>UCL emotional expression</td>
<td>3–12</td>
<td>58.5 ± 1.5</td>
<td>57.4 ± 1.4</td>
<td>62.1 ± 1.3</td>
<td>6.1 ± 1.3</td>
<td>14.8</td>
<td>9.97</td>
<td>1.2</td>
<td>0.00</td>
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<tr>
<td>UCL comforting cognition</td>
<td>5–20</td>
<td>116 ± 2.4</td>
<td>115 ± 2.5</td>
<td>120 ± 2.1</td>
<td>11.7 ± 2.4</td>
<td>3.1</td>
<td>4.3</td>
<td>1.2</td>
<td>0.02</td>
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<td>Actual weekly hours spent at work</td>
<td>69 ± 10.8</td>
<td>8.1 ± 11.5</td>
<td>17.4 ± 11.6</td>
<td>24.8 ± 14.3</td>
<td>206</td>
<td>49.25</td>
<td>1.2</td>
<td>0.00</td>
<td>1.29</td>
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<tr>
<td>Contract hours at work</td>
<td>31.9 ± 8.5</td>
<td>32.1 ± 8.5</td>
<td>30.0 ± 27.1</td>
<td>30.4 ± 27.5</td>
<td>30.1 ± 27.5</td>
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<td>30.1 ± 27.5</td>
<td>30.1 ± 27.5</td>
<td>30.1 ± 27.5</td>
</tr>
</tbody>
</table>

Note: Description of the scores of participants who started with the program.

Abbreviations: BDI-II-NL, Beck Depression Inventory, second version; SFQ, Shortened Fatigue Questionnaire; IOA, Inventariestijl Omgang met Anderen (Inventory of Interpersonal Situations); UBOS, Utrechtse BurnOut Scale (Utrecht BurnOut Scale); SCL, Symptom Checklist 90; UCL, Utrechtse Coping Lijst (Utrecht Coping List).
with this, which resulted in a personal relapse prevention plan at the end of the program. De Vente et al concluded that CBT-based interventions are unsuccessful in the treatment of patients suffering from clinical levels of work-related stress. These findings are in line with those of Blonk et al, who compared an extensive CBT therapy, a treatment with brief CBT-derived interventions combined with individually focused and workplace interventions, and a control group of people with severe work-related psychological complaints. The combination treatment was found to be superior to both CBT and the control group in that it shortened the duration of sick leave. This last finding is probably in line with our own results since, in our program, it is not possible to discriminate between the effects of the different elements of the treatment. In our program, the total package of interventions may be responsible for the therapeutic outcome. However, it is not possible to identify a single element of the program that causes the effect.

Patient preferences for the distinctive elements differed, but they were satisfied with the treatment as a whole and with the opportunity to share their experiences in a group setting.

When looking at the figures relating to the follow-up assessment that was held a year after the program had ended and comparing these to the initial figures, a significant reduction of symptoms was found and patients’ job performance amounted to 77.3% of the hours specified in their contracts. Before the start of the program, patients had been absent from their jobs for approximately 30 weeks on average. We therefore conclude that the effects of this program seem promising.

Coping strategies hardly improved at all or only very slightly. Van Rhenen et al showed that active coping strategies are related to the duration of the sick leave. We were unable to confirm these findings. However, there are some differences between our study and that of Van Rhenen et al. In our study, participants mainly suffered from burnout, whereas in the Van Rhenen study, the whole population of a major company was investigated. In our study, the initial mean scores of coping strategies did not differ from the mean scores of a normal population, according to the manual of the UCL. Therefore, the possibility of significantly improving coping strategies is not very realistic. Nevertheless, the changes we found are in the desired direction.

There are some limitations to this study. As previously mentioned, this is a natural field study with a lack of homogeneity in the population and without a single intervention technique that is responsible for the effects. Since we did not use a placebo condition, it is still possible that the therapeutic results are not superior to any effects over time without treatment. Therefore, it is impossible to draw conclusions about the working mechanisms of the program.

This program was developed for and used with patients in a regular mental health care situation instead of in a randomized, controlled laboratory situation. This might increase its chance of being implemented in everyday mental health care practice.

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Disclosure
The authors report no conflicts of interest in this work.

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