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Article:

Walker, N. orcid.org/0000-0002-1744-4498 and Hall, S. (2022) The initial design and programme theory for a new work-focused psychotherapeutic intervention to treat moderate-severe recurrent depression and enhance job retention. Mental Health Review Journal, 27 (4). pp. 372-397. ISSN 1361-9322

https://doi.org/10.1108/MHRJ-12-2020-0094

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Mental Health Review J

The initial design and programme theory for a new workfocused psychotherapeutic intervention to treat moderatesevere recurrent depression and enhance job retention.

Journal:	Mental Health Review Journal
Manuscript ID	MHRJ-12-2020-0094.R4
Manuscript Type:	Case Study
Keywords:	Job retention, Work-focused psychotherapeutic intervention, Occupational Therapy, Depression, Critical realism, Group Cognitive Behavioural Therapy

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1 A case study of the initial design and programme theory for a new work-focused

2 psychotherapeutic intervention to treat moderate-severe recurrent depression and enhance

3 job retention

4

5 Abstract

6 *Purpose:* Here we report a case study of the initial design and programme theory of an

7 interdisciplinary Work-focused Relational Group CBT Treatment Programme for moderate-severe

8 depression using realist methods.

9 Design/methodology: Our case study shows how we (i) designed the intervention using component

10 analysis of existing literature and focus groups of frontline practitioners and former service users

11 and mind-mapping analysis to establish its operational logic; and (ii) evaluated the theory

- 12 underpinning the intervention using realist synthesis and evaluation to establish its conceptual 13 logic.
- 14 Findings: An iterative hybrid approach of literature review, component analysis, focus group 15 discussion, and realist methods established the initial design and programme theory for the new 16 intervention. The intervention focused on three areas of therapy, three inter-dependent outcomes, 17 in a group format, with opportunities created for peer interaction. The main theoretical principles 18 most likely to promote efficacy were to accelerate and optimise activation of one or more of six 19 hypothesised mechanisms: realise, reflect, regulate, resolve, relate, and retain/resume in the
- 20 context of skilfully facilitated group psychotherapy.
- 21 Social Implications: This study outlines a methodological approach based on the layered ontology 22 of critical realist philosophy, applied to a successful example, which will be useful during the early 23 stages of design and development of new group-based psychotherapeutic interventions.

24 Originality: By adopting the critical realist approach, we identified underlying mechanisms of

25 change in relational group CBT. The theoretically integrated approach involving service-users and

26 practitioners from different professional backgrounds was unique and meant that the treatment

27 programme was multi-modal rather than informed by a single therapeutic or theoretical approach.

28 Article classification: Case Study

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Introduction

Approximately 15% of the UK working population have symptoms of mental health disorders, and diagnoses of depression and anxiety continue to rise (McManus et al., 2016). People with depression are at greater risk of losing work (Hakulinen et al., 2021), and 2-4% of unemployment can be attributed to depression (Porru et al., 2019). In Europe, 20-55% of depressed employees are absent through sickness every year (Evans-Lacko and Knapp, 2014). Moreover, employees with depression often struggle with return-to-work processes after prolonged absences, since functional recovery does not necessarily follow symptomatic recovery (Vemer et al., 2013). While some employees return to work quickly, they then take more time off sick in the future, and those that return to work slowly must often reduce their working hours (Hellström et al., 2021). Difficulties sustaining employment and low rates of labour market participation mean that if employees with depression are sacked, resign, or retire early, some may never work again (Bubonya et al., 2019). Once unemployed for over six months, people are three times more likely to be depressed than those in work, with an increasing effect the longer they are out of work (Koenig et al., 2014). They are at greater risk of worsening depression and a cluster of comorbid conditions (Manning and Jackson, 2013) linked to the stress of unemployment, poverty, social exclusion and health inequality (Marmot, 2005, World Health Organization, 2014).

Interventions are therefore clearly required to keep employees with depression in work. However, for employees with depression, interventions that aim to relieve symptoms are not necessarily effective for vocational rehabilitation (Waddell et al., 2008). For successful prevention, both work-focused treatment and workplace accommodations are necessary due to their interdependency, and work-focused psychotherapeutic interventions for depression should ideally be based on sound conceptual frameworks (Bond et al., 2019). The Resolution Foundation found that interventions specifically designed to enhance job retention in employees with disabilities are under-investigated and any support offered is often too little, too late (Gardiner and Gaffney, 2016). Historically, the emphasis has generally been on return to work and reducing the cost of absenteeism and welfare benefits rather than reducing health-related employment exit.

To address this gap, we recently tested the feasibility of a new, interdisciplinary Work-focused Relational Group CBT Treatment Programme for moderate-severe depression administered in the clinical setting (Walker et al., 2021). The new programme showed promising immediate positive outcomes in terms of depressive symptoms, interpersonal difficulties, and job retention. Given the promising pilot, we redesigned this group-based psychotherapeutic intervention to be delivered in the workplace by peer facilitators, thereby improving acceptability and accessibility (Walker and Dobbing, 2021). Here we report the initial intervention design and programme theory underpinning the original Relational Group CBT Treatment Programme. We adopted realist methods to attempt to find out not just "What works?" but "What works for whom in what circumstances in what

respects, and how?", since a convincing programme theory needs to be based on the layered ontology of critical realist philosophy whereby mechanisms in the "real" domain (e.g., an employee deciding to disclose mental health problems) are activated in certain contexts (e.g., during treatment for depression) to generate events and actions in the "actual" domain (e.g., an employee's line manager offering emotional support), potentially leading to experiences and perceptions in the "empirical" domain that can be observed and measured (e.g., an employee going off sick less often). In doing so, we aim to help other practitioners seeking to design similar programmes and provide a methodology for practitioners developing new group-based psychotherapeutic interventions to follow during the early stages of design and development.

76 Methods

77 Study design and ethical statement

To develop a new work-focused psychotherapeutic intervention to treat moderate-severe recurrent
depression and enhance job retention in help-seeking employed people, we (i) designed the
intervention using component analysis of existing literature to establish *what* the intervention does
and *how*, i.e., its operational logic; and (ii) evaluated the theory underpinning the intervention using
realist synthesis and evaluation to establish *why* the intervention works, i.e., its conceptual logic
(Astbury and Leeuw, 2010). Focus groups were used as stakeholder consultation during the
design phase, with mind mapping used to analyse the data.

The University of Derby Research Ethics Committee, the NHS Local Research Ethics Committee (LREC) via IRAS (NHS LREC Ref: 12/YH/0303 approval granted 30.05.2012), and the NHS Trust's Research and Innovation department approved the study protocol. The study conformed to the Declaration of Helsinki (World Medical Association, 1996) and Good Clinical Practice (Medicines and Healthcare products Regulatory Agency, 2012). All focus group participants provided written informed consent, and measures were taken to mitigate the risks of participating in focus groups (Linhorst, 2002), e.g., asking participants to agree to a set of ground rules similar to that used in CBT group psychotherapy.

49 93 *Literature review*

Databases (e.g., PubMed, Cinahl, PsycInfo) were searched in 2012 for randomised or cluster randomised controlled trials (RCTs) reporting face-to-face psychotherapeutic interventions that aimed to improve job retention or return to work in employed people with moderate-severe recurrent depression or with long-standing depression plus a high degree of chronicity, complexity, and comorbidity causing work dysfunction. Interventions were included if they were delivered in a 1:1 or group format as primary, secondary, or tertiary preventative programmes specifically for

depression. Only studies that reported both outcomes related to 1) work status e.g., rates of job
 retention or sickness absence and 2) clinical status e.g., symptoms of depression or psychological
 distress were included. A more stringent search for studies evaluating the effectiveness of work focused CBT interventions for depression was undertaken in July 2021.

The literature review excluded guasi-experimental, pilot, or case-control studies and interventions not based on an explicit psychological theory and practice such as Occupational Therapy or Individual Placement and Support (IPS). Interventions based on exercise, massage, relaxation, yoga, meditation, tai chi, or mindfulness, and interventions that focussed only on unemployed people or those on long-term sick, were excluded. Each paper was appraised, and relevant data was extracted and tabulated (Supplementary Table S1).

20 110 Component analysis for intervention design

111 To develop the intervention, it was first necessary to understand exactly what interventions did and
 112 how they did it. A comprehensive descriptive analysis of relevant and potentially relevant

²⁵₂₆ 113 psychotherapeutic interventions identified in the literature review was undertaken to establish each

intervention's form (or "operational logic") (Astbury and Leeuw, 2010). A data extraction form,
 anapping the later restriction of the study was used to tabulate the datails using the later restriction.

²⁸₂₉ 115 specifically designed for this study, was used to tabulate the details using the Intervention

116 Component Analysis (ICA) approach (Sutcliffe *et al.*, 2015).
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³² 117 Focus group discussions and analysis ³³

Eight focus groups were convened at the pre-intervention planning stage generating approximately 16 hours of discussion: four pre-intervention planning focus groups for frontline practitioners and managers and four pre-intervention planning focus groups for former service-users. Twenty-eight former service-users were recruited to the focus groups by post and frontline practitioners and managers were recruited by email or word-of-mouth. All participants had either experience of receiving/providing group CBT in secondary mental health care or experience of receiving/providing job retention interventions within the preceding two years. Study information was provided in written form and explained face-to-face or by telephone before obtaining written consent.

The focus groups had a semi-structured format and used open-ended questions to stimulate discussion. The main questions were written on a flip chart to ensure each topic was considered (see Supplementary Methods S1). Discussions lasted approximately 2 hours, with a break in the middle. All sessions were digitally video and audio recorded to aid transcription and capture non-verbal behaviour. The author used a flip chart to record ideas as they emerged and to summarise the discussion in collaboration with participants. Field notes were made immediately after each meeting, and the author checked these by reviewing the video- and audio-recording in a single uninterrupted sitting.

Mind-mapping was chosen for data analysis as a robust yet rapid format for analysing qualitative data and ability to represent complex ideas in a non-linear format that reflects natural thinking patterns (Meier, 2007, Burgess-Allen and Owen-Smith, 2010). After each focus group, a mind map was constructed using field notes and flip charts from the discussion. The mind map was circulated to participants by email asking them for amendments, clarifications, corrections, and/or further thoughts. Mind-mapping was undertaken sequentially, so that each subsequent discussion guide could be updated such that initial groups allowed for thorough exploration of the topic and subsequent groups for the development of broader themes. In this way, stakeholder consultation was dynamic and recursive.

Realist synthesis for programme theory analysis

A theoretical integration of the explanatory frameworks informing relevant and potentially relevant psychotherapeutic interventions identified in the literature search was undertaken to establish each intervention's function (or "conceptual logic") (Astbury, 2018). A realist synthesis methodology was used to explore secondary source data derived from the studies identified in the literature review and to reveal plausible mechanisms of change (Pawson and Tilley, 2004). Realist synthesis focuses on the choices that individuals make influenced by their "reasoning", their "reactions", and the "resources" available to them (Lacouture et al., 2015).

The process began by reading, re-reading, annotating, collating, and mapping descriptions of interventions provided in each article and in any foundational texts cited that explained why the intervention was supposed to work (Pawson, 2006). Even when explicit explanations were spelled out, it was often necessary to further mine the document to elucidate implicit assumptions about the human behaviour informing *what* they did, *how* they did it, and *why*.

There were several elicitation cycles. Candidate mechanisms were revealed by looking for plausible mechanisms of change. Four broad explanatory frameworks were identified which

comprised several mid-range theories (Table 1). Each theory, and how it was applied in practice,

was interrogated to find out what programme designers believed might influence employees'

choices about whether to stay at work or return to work, particularly in terms of reasoning,

reactions, and resources. This process culminated in an initial coding framework.

Data extraction forms partially populated during the component analysis process were used to help

- locate, integrate, compare, and contrast empirical evidence relating to the theoretical concepts underpinning the design of the intervention being evaluated (Pawson et al., 2004) (see
- Supplementary Table S2).

Realist evaluation

To refine the programme theory, a realist evaluation approach was used to explore primary source data derived from the eight focus group discussions. Realist evaluation uses "a case-based (i.e., configurational) and not a variable-based [i.e., correlational] orientation" (Van Belle et al., 2016). The realist evaluation used the initial coding framework developed through exploration of existing theories, and the programme theory for the new intervention was refined according to the following

173 steps (Crinson, 2001):

13 174 (1) *Transcription*. Audio recordings were transcribed by a qualified administrator and transcripts
 175 were annotated with observational data.

(2) Indexing. Significant excerpts of verbatim transcription were coded if they appeared to show why, with whom, and in which circumstances a new intervention might work (Lacey and Luff, 2009). A note was made of the attributes of the individual respondent so that group aggregated findings could be reported in relation to major sub-groups of service-user (e.g., occupational status) or service provider (e.g., professional role). Incidence and intensity data were logged with excerpts to preserve context (e.g., if a response was repeatedly given by one participant or by many, whether responses were particularly emotional etc.). The data were managed and organised using Microsoft Word and Excel. Multiple coding cycles were ongoing to rearrange, recombine, reconstruct, and reconceptualise the data.

185 (3) Interpretation. Deductive reasoning was used to interpret empirical data in the light of the first
 186 order codes derived from realist synthesis. Inductive reasoning was used to generate a set of
 187 second order codes when empirical data were not explained by current conceptual frameworks.

188 (4) *Theorisation.* Themes included those related to intervention design (operational logic) and
 189 those related to programme theory (conceptual logic). Participants' words were coded as a
 190 mechanism of change or as an enabling or disabling context. Causality was explored using the
 191 "if...then...because" format (Astbury, 2018) (see examples in Table 2).

(5) Abduction. The resulting themes were collapsed into six mechanisms through a deep analysis of the data using different forms of abstract reasoning. Abductive reasoning required creative and imaginative thinking that goes above, beyond, and away from current theories to discern relationships, connections, and themes. This was achieved through visual displays such as coherence tables, pie charts, bullet points, flow diagrams to reveal previously imperceptible patterns.

(6) Retroduction. In realist research, retroductive reasoning is used to identify the underlying mechanisms. Retroduction made sense of the new ideas generated through abduction, moving backwards in confronting existing theory with new ideas (Danermark et al., 2019). A range of strategies were used as described in (Danermark et al., 2019). For example, transfactual argumentation or counter-factual thinking involved asking questions such as "In which

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circumstances would an employee never return-to-work after sickness absence due to
depression?"; "What might happen if there is no intervention?"; "What wouldn't happen if the
intervention didn't work?"; and "How is sickness absence even possible?".

- ⁸₉ 206
- ¹⁰ 207 **Results**

$\frac{12}{13}$ 208 Literature review and component analysis – the first design iteration of the intervention

Only five studies describing seven relevant psychotherapeutic interventions fully met the criteria for inclusion in a narrative review of effectiveness. A further 19 studies that partially met criteria in terms of targeting mild-moderate mental health problems, stress, distress, or burnout (22 potentially relevant psychotherapeutic interventions) were included in the component analysis and theoretical integration processes (see Supplementary Table S1), to give a total of 29 relevant or potentially relevant psychotherapeutic interventions for analysis. The review exposed a gap in knowledge and practice regarding psychotherapeutic interventions, especially work-focused psychotherapeutic interventions, that might enhance job retention in employees with moderate-severe recurrent depression. The updated more stringent search for work-focused CBT

217 interventions for depression in 2021 found no other studies meeting the inclusion criteria.

Intervention Component Analysis (ICA) (Sutcliffe et al., 2015) culminated in a checklist of intervention components (see **Supplementary Table S3**). The first iteration of the intervention design, i.e., the work-focused CBT treatment programme, was based on several core components identified through component analysis and included strategic and operational, content, process,

- $\frac{37}{38}$ 223 and job retention components (**Figure 1**).
- $\frac{39}{40}$ 224 Focus group discussions and mind mapping the second design iteration of the intervention

Developing new interventions requires consideration of various stakeholder perspectives to identify possible mechanisms of change and their relevant contexts (Pawson and Tilley, 2004). Therefore, focus groups were used to ascertain not just what users thought would be helpful, but how it would be done (operational logic), and why (conceptual logic) to inform intervention design and programme theory, respectively.

- ⁴⁹ 50 230 The focus groups included 13 former service-users (8 female, 5 male) and 15 frontline
- practitioners and managers (5 male, 10 female). Most participants were White British: only one
 practitioner was from a BAME community. The practitioners included six Occupational Therapists
 working for the NHS or a third sector Vocational Rehabilitation service, six
- ⁵⁶ 234 psychologists/psychotherapists and one service-user representative working for an NHS Trust, ⁵⁷
- 235 and two Occupational Health nurses working for an independent provider. Purposive sampling
- ⁵⁹ 236 ensured participants had appropriate knowledge and experience and could participate in lively and

thought-provoking discourse, and, overall, composition of the focus groups provided the necessary
heterogeneity and demographic diversity of participants to prompt a cross-section of opinions.

7 239 The second iteration of the work-focused group-CBT treatment programme was based on four
 8 240 active ingredients identified through mind-mapping of sequential focus group discussions (see
 10 241 Figure 2):

Triple foci of therapy: The consensus amongst former service-users was that the new intervention
 should focus on (i) presenting problems (e.g., symptoms of depression); (ii) work issues (e.g.,
 occupational stress); and (iii) underlying issues (e.g., trauma).

Three inter-dependent outcomes: Taken as a whole, former service-users thought the new intervention needed clear objectives related to three inter-dependent outcomes: (i) improvement in depression; (ii) continued employment; and (iii) enhanced relationships at home and at work. The main goal should be to help someone with recurrent depression recover fully, with staying at work or returning to work contributing to recovery.

Group format: Most former service-users thought the new intervention should use a closed-group, fixed-term, group format. It should run as 12 full-day sessions with regular breaks, during term-time from 10 am to 3 pm, with no more than eight clients and two co-facilitators. They suggested that each session should have a "loose structure" and valued different-sized groupings. There was broad support for light refreshment and for lunchtime to be unstructured to allow participants to get to know one another. Former service-users also thought clients could be invited to discuss specific difficult situations and interpersonal incidents so that other members of the group could suggest new perspectives and strategies. They approved of enactive techniques such as role-play and chairwork to rehearse and practise new skills.

Facilitation of peer interaction: Overall, former service-users thought the new intervention should create opportunities for peers to interact, recognising the added value of peer learning, peer feedback, and peer support, and felt the group process should be both enjoyable and therapeutic. They valued being able to take on the role of "therapist" to each other, allowing them to learn basic CBT concepts and skills as help-givers, which they could then apply to themselves. Finally, one frontline practitioner suggested that an Occupational Therapist should be involved in co-facilitating the group and could provide employment support and low-key liaison with the workplace using the Person-Environment-Occupation (PEO) model (Law et al., 1996).

⁵³₅₄ 267 *Realist synthesis - the first iteration of the programme theory*

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new psychotherapeutic intervention should promote change at three levels (Figure 3): work-

focused, psychological, and relationship-focused.

Work-focused changes, both individual and organisational, included work-related changes in self and the work environment. With respect to changes in self, it was found that employees needed to change by adjusting to organisational changes and other career setbacks; appreciating the benefits of lifelong learning in the workplace; feeling that they belong; and having a fulfilling job and a work-life balance. The work environment needed to change by involving employees in improving their working environment; allowing employees to have more control over their work and the demands made upon them; being clear about what employees are expected to do; providing the necessary resources for them to do their jobs effectively; promoting supportive relationships in the workplace; and providing fair and consistent leadership.

Psychological changes were behavioural, cognitive, and emotional. With respect to behavioural changes, employees needed to develop more helpful behavioural patterns; have better coping skills; and to be able to set their own goals. Cognitive changes included the need to develop more helpful thinking patterns; have more knowledge about stress/trauma/depression; and to be able to reframe stressful events and problems as challenges to be overcome. Finally, emotional changes included the need relief from symptoms of stress/trauma/depression; to feel physically calm and psychologically safe; and to be able to express and manage their emotions effectively.

Relationship-focused changes were with self and with others. With respect to self, employees need more self-awareness (insight); to appreciate their strengths, personal qualities, life experience, and wisdom; to see themselves as resourceful, resilient, and responsible; and to believe that they are in charge of their lives. With respect to others, employees needed more interpersonal awareness (outsight); to understand how past relationships affect present relationships; to relate positively; and to experience supportive relationships in therapy.

Realist evaluation - the second iteration of the programme theory

The second iteration of the programme theory for the new intervention was based on 24 sub-themes merged into 12 themes and subsequently collapsed into 6 mechanisms requiring the acquisition, consolidation, and application of basic CBT concepts and skills: the new group-based psychotherapeutic intervention should promote the ability to realise, reflect, regulate, resolve, relate, and retain/resume. These mechanisms - based on empirical evidence, supported by the literature, and logically consistent (Maxwell, 2012) - were mapped onto the initial coding framework (Table 3).

Realise: Recognising depression, work-related stress, or interpersonal problems. As in physical illness, mental illness may have few overt signs. A "light bulb moment" allowing a client to see problems more clearly.

Reflect: Observing thoughts, feelings, and behaviours from a meta-position. The process whereby
a client gains insight or outsight. A more profound process of illumination allowing a client to see
the underlying causes of their problems or symptoms, and those of others.

- ⁸ 309 *Regulate:* Tolerating feelings (e.g., emotions, sensations, impulses) triggered by autonomic hyper-
- 310 and hypo-arousal so that a client can stabilise their mood. A more adaptive form of coping by
 311 dealing directly with a problem.
- Resolve: Making decisions and taking action. Dealing with interpersonal conflict through positive
 313 competition, collaboration, and cooperation. Working through ambivalence so that a client can
 314 commit to new behaviours.
- *Relate:* Getting along better with oneself and others. Learning to trust when clients who have
 316 experienced interpersonal trauma, perceive relationships as a source of threat, rather than as a
 317 source of support.
- Retain/Resume: Being able to stay-at-work whilst experiencing some symptoms of depression.
 Being able to return-to-work after being off sick with depression.
- 27
 28 320 The Work-focused Relational Group-CBT Treatment Programme
- The new intervention, the interdisciplinary Work-focused Relational Group CBT Treatment Programme for moderate-severe depression (Walker et al., 2021), assumes that it is possible to accelerate and optimise activation of one or more of the six hypothesised mechanisms in the context of group psychotherapy via the skilful facilitation of peer interaction. This requires the leader to set up opportunities for peer learning, peer feedback, and peer support to produce the desired outcomes. One context-intervention-mechanism-outcomes (CIMO) configuration represents the overall programme theory, as shown in Figure 4.
- ⁴¹ 42 328

⁴³₄₄ 329 **Discussion**

Here we describe the development and operational and conceptual logic of a new group-based psychotherapeutic intervention, the Work-focused Relational group-CBT treatment programme for moderate-severe recurrent depression (Walker et al., 2021). The programme, which was piloted in the clinical setting, showed promising immediate positive outcomes in terms of depressive symptoms, interpersonal difficulties, and job retention (Walker et al., 2021). The programme underwent a second phase of development to improve its acceptability and accessibility by delivering it at work through peer facilitators (Walker and Dobbing, 2021). Here we present the process used to develop the structure and theory of the programme to help other practitioners develop similar complex interventions.

While the efficacy of any intervention measured in RCTs is obviously important, here we chose realist methods to develop a new programme because aggregated data from meta-analyses based on mean scores from RCTs do not provide enough information to personalise treatment with precision. Outcome-focused studies claim that interventions are effective if most participants show evidence of significant improvement on the outcome of interest. Change is assumed to take place linearly with the intervention without considering how patients interact with interventions and without considering complex contextual factors that might account for differential response. Furthermore, humans do not necessarily change their behaviour because of *causes*, they do so for reasons (Bhaskar, 2020), because humans are capable of rational decision-making. We therefore adopted the realist perspective when designing our new programme, namely that it is people who make interventions work rather than the interventions themselves. We informed our intervention through an understanding of what influences employees' decisions to carry on working or not and through consultation with stakeholders and people with "lived experience".

In doing so, we adopted the overarching critical realist perspective to integrate service-user expertise into design in focus groups, because doing so provides a richer and more accurate understanding of the phenomena under investigation. The focus groups included several Occupational Therapists or Occupational Health nurses and psychologists/psychotherapists specialising in different approaches. This collaboration across professional boundaries was particularly important because the development of a programme theory relies on the researcher being "an intellectual generalist rather than a super-specialist" (Pawson et al., 2004) and the generation of cross-disciplinary understanding (Danermark, 2019). However, whilst the Medical Research Council framework for the development and evaluation of complex interventions encourages conceptual eclecticism (Wells et al., 2012), it warns about the risk of confusion for clients when models and methods are unintegrated. The theoretically integrated approach involving practitioners from different professional backgrounds in the design of the new intervention was unique and meant that the treatment programme was multi-modal rather than mono-modal, i.e., informed by a single therapeutic or theoretical approach.

The intervention design of a work-focused relational group-CBT treatment programme targeted presenting, work, and underlying problems and aimed to produce three inter-dependent outcomes: improved clinical status, work status, and interpersonal functioning. Our feasibility study of the intervention showed that BDI-II depression scores significantly decreased after therapy, there were significant improvements in clinically-relevant psychological distress, coping self-efficacy, HRQoL, and interpersonal difficulties after therapy, and all clients in work at the start of therapy remained in work at the end of therapy, thereby successfully meeting the three outcome goals (Walker et al., 2021). Although there have been four RCTs of work-based CBT including workers off sick with mild symptoms of common mental disorders (CMDs), work-related stress, or burnout (Dalgaard et

375 al., 2017, Lagerveld et al., Noordik et al., 2013, Reme et al., 2015), our programme remains the
 376 first to focus on triple foci of therapy, reported on all three outcomes, and involved service-users,
 377 Occupational Therapists, or Occupational Health nurses in intervention design.

Realist evaluation allowed deeper analysis of stakeholders' views, highlighting the resources they felt were necessary as part of the new intervention and what reasoning process needed to be stimulated for clients to recover. Consequently, the programme theory was based on six hypothesised mechanisms of change. Training employees in basic CBT concepts and skills through psychoeducational content and the relational group CBT process aims to activate one or more mechanism to produce the desired outcomes. Activation of change can be optimised in the context of group psychotherapy via the skilful facilitation of peer interaction requiring the leader to set up opportunities for peer learning, peer feedback, and peer support using a structured-directive leadership style. Furthermore, taking on the role of peer facilitator was appealing to some former service-users who wanted to use their experiences to help others as *de facto* therapists (Whitfield, 2010).

The programme theory partially aligns with a conceptual framework of the explanatory mechanisms of group-based behaviour change interventions (Borek and Abraham, 2018), which identified processes that elucidate what might happen in a group of people with a common problem (e.g., risk of Type 2 diabetes) and further developed in the "Mechanisms of Action in Group-based Interventions" (MAGI) framework (Borek et al., 2019). Similar to our programme, the production of outcomes in MAGI relies on skilful facilitation of peer interaction to promote interpersonal and intrapersonal change processes. Peer interaction activates these mechanisms via social comparison and social validation and cognitive dissonance and self-efficacy. respectively. However, whilst this behavioural change model is probably therapeutic, it is not a specific treatment programme for moderate-severe recurrent depression. The authors did, however, analyse transcripts of group sessions to identify group processes and facilitation techniques for the model, which might represent a good way to reveal how the hypothesised mechanisms might produce the desired outcomes.

Former service-users emphasised the importance of peers in recovery. Peers can often be a more credible source of learning, feedback, and support, because they share the experience of trying to maintain employment while depressed. Likewise, peers are often resourceful with valuable life experience, personal qualities, and strengths that can be brought into play in group-based interventions. Peer interaction is the core group-specific therapeutic factor in relational group-CBT and includes in vivo practice of skills such as "the art of good conversation", exploratory activities, experiential exercises, and groupings of different sizes. Only one recent group-based work-focused psychotherapeutic intervention makes purposeful use of peer processes like facilitated group discussion and role play (Niedermoser et al., 2020).

Encouraging people to help each other is supported by research into the comparative effectiveness on depression outcomes of peer-led interventions delivered by volunteers or paid lay people, which shows that they can be as effective as interventions delivered by paraprofessionals (Bellamy et al., 2017, Fuhr et al., 2014, Parmenter et al., 2015, Vally and Abrahams, 2016) and gualified psychologists or psychotherapists (Bryan and Arkowitz, 2015). Peer support interventions can reduce depressive symptoms more than care-as-usual and is comparable to group CBT (Bryan and Arkowitz, 2015, Pfeiffer et al., 2011). Indeed, our second iteration of the programme, the Training (and Staff Support) Programme (TSSP), further exploited the value of peers through simplification for delivery by peer facilitators at the worksite as an intervention for all employees rather than an indicated/targeted intervention for only those with symptoms/risk of depression (Walker and Dobbing, 2021). In this way, the worksite TSSP provides a democratic learning space and empowers employees to stay at work by self-managing their symptoms and by challenging the interpersonal dynamics and organisational structures that might precipitate and perpetuate depression (Walker and Dobbing, 2021).

Limitations

Firstly, the focus groups comprised a convenience sample, which means their views may not be typical or representative and it is unlikely that anyone who had previously found group CBT to be unhelpful would volunteer to take part. Likewise, the emphasis was on what had been "helpful" rather than what had been "unhelpful" in their experience of psychotherapy, which may have biased the overall discussion. Furthermore, some participants' contributions may have been influenced by knowing the researchers as colleagues or therapists, with the possibility of a social desirability bias.

Secondly, former service-users were participants in the research and not involved as partners which means the research was not coproduced. Nevertheless, engagement of former service-users in stakeholder consultation was not a "rubber stamping exercise" because they provided the much needed "insider perspective" (McConnell et al., 2018). In addition, these participants had extra protection due to ethical and research governance processes which compensated for some of the concerns and weaknesses of the coproduction approach (Watson, 2020).

Conclusion

Here we report the initial intervention design and programme theory underpinning a new Relational Group CBT Treatment Programme. By adopting an iterative hybrid approach of literature review, component analysis, focus group discussion, and realist methods, we established not only the

optimal design format for the new programme (triple foci of therapy, three inter-dependent outcomes, group format, with facilitation of peer interaction) but also the main theoretical underpinnings most likely to promote efficacy (accelerate and optimise activation of the one or more of the six hypothesised mechanisms in the context of group psychotherapy via the skilful facilitation of peer interaction). Our work provides a methodology for practitioners developing new group-based psychotherapeutic interventions to follow during the early stages of design and development based on the layered ontology of critical realist philosophy. References Astbury, B. (2018), "Making claims using realist methods", Doing Realist Research. London: Sage Publications. Astbury, B. and Leeuw, F. L. (2010), "Unpacking black boxes: mechanisms and theory building in evaluation", American Journal of Evaluation, Vol. 31 No. 3, pp. 363-381. Bellamy, C., Schmutte, T. and Davidson, L. (2017), "An update on the growing evidence base for peer support", Mental Health and Social Inclusion. Bhaskar, R. (2020), "Critical realism and the ontology of persons", Journal of Critical Realism, Vol. 19 No. 2, pp. 113-120. Bond, G. R., Lerner, D., Drake, R. E., Reidy, C. and Choi, J. (2019), "Work-Focused Interventions" for Depression", Work, Vol. 4, p. 02. Borek, A. J. and Abraham, C. (2018), "How do small groups promote behaviour change? An integrative conceptual review of explanatory mechanisms", Applied Psychology: Health and Well-Being, Vol. 10 No. 1, pp. 30-61. Borek, A. J., Abraham, C., Greaves, C. J., Gillison, F., Tarrant, M., Morgan-Trimmer, S., McCabe, R. and Smith, J. R. (2019), "Identifying change processes in group-based health behaviour-change interventions: development of the mechanisms of action in group-based interventions (MAGI) framework", Health Psychol Rev, Vol. 13 No. 3, pp. 1-21. Bryan, A. E. and Arkowitz, H. (2015), "Meta-analysis of the effects of peer-administered psychosocial interventions on symptoms of depression", Am J Community Psychol, Vol. 55 No. 3-4, pp. 455-71. Bubonya, M., Cobb-Clark, D. A. and Ribar, D. C. (2019), "The reciprocal relationship between depressive symptoms and employment status", Economics & Human Biology, Vol. 35, pp. 96-106. Burgess-Allen, J. and Owen-Smith, V. (2010), "Using mind mapping techniques for rapid gualitative data analysis in public participation processes", *Health Expectations*, Vol. 13 No. 4, pp. 406-415.

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14 15	595	Figure legends
16	596	Figure 1. Core components of the new work-focused CBT treatment programme identified through
17 18	597	literature review and analysis (first design iteration).
19 20	598	Figure 2. Active ingredients of the new work-focused CBT treatment programme identified through
21 22	599	focus group discussions and mind mapping (second design iteration).
23 24	600	Figure 3. Change processes identified through realist synthesis of the literature review (first
24 25 26	601	iteration of the programme theory).
20 27	602	Figure 4. Overarching context-intervention-mechanism-outcome configuration of the new
28 29	603	interdisciplinary Work-focused Relational Group CBT Treatment Programme for moderate-severe
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SUPPLEMENTARY MATERIALS

Supplementary Table S1. Results of the literature review.

	Y Relevant Psychotherapeutic Interventions		Potentially Relevant Psychotherapeutic Interv		
	udy details: ithor/date/setting	Country	Level of intervention	Format	Type of preventior
1.	Eriksen, H. R., Ihlebaek, C., Mikkelsen, a, Grønningsaeter, H., Sandal, G. M., and Ursin, H., 2002. Improving subjective health at the worksite: a randomized controlled trial of stress management training, physical exercise and an integrated health programme. <i>Occupational medicine (Oxford, England)</i> , 52 (7), 383–391.	Norway	Universal stress management training	Group	Primary
2.	Limm, H., Gundel, H., Heinmuller, M., Marten-Mittag, B., Nater, U. M., Siegrist, J., and Angerer, P., 2011. Stress management interventions in the workplace improve stress reactivity: a randomised controlled trial. <i>Occupational</i> <i>and Environmental Medicine</i> [online], 68 (2), 126–133.	Germany	Universal stress management training	Group	Primary
3.	Takao, S., Tsutsumi, A., Nishiuchi, K., Mineyama, S., and Kawakami, N., 2006. Effects of the job stress education for supervisors on psychological distress and job performance among their immediate subordinates: A supervisor-based randomized controlled trial. <i>Journal of Occupational Health</i> , 48 (6), 494–503.	Japan	Universal job stress education plus counselling skills for line managers	1:1	Primary
4.	Tsutsumi, A., Nagami, M., Yoshikawa, T., Kogi, K., and Kawakami, N., 2009a. Participatory Intervention for Workplace Improvements on Mental Health and Job Performance Among Blue-Collar Workers: A Cluster Randomized Controlled Trial. <i>Journal of Occupational and Environmental Medicine</i> [online], 51 (5), 554–563.	Japan	Universal participatory team-based problem-solving intervention	Group	Primary
5.	Vuori, J., Toppinen-Tanner, S., and Mutanen, P., 2012. Effects of resource- building group intervention on career management and mental health in work organizations: Randomized controlled field trial. <i>Journal of Applied Psychology</i> , 97 (2), 273–286.	Finland	Universal resource-building group intervention	Group	Primary
6.	Duijts, S. F. , 2007. Prediction and early intervention in employees at risk for sickness absence due to psychosocial health complaints. Doctoral Thesis Maastricht University.	Netherlands	Targeted coaching	1:1	Secondary
7.		Netherlands	Targeted psychotherapy with cognitive behavioural therapy and problem-solving	1:1	Secondary

	employees: A randomised controlled trial. <i>Occupational and Environmental Medicine</i> , 68 (6), 400–407.				
	Van Rhenen, W., Blonk, R. W. B., Schaufeli, W. B., and van Dijk, F. J. H., 2007. Can sickness absence be reduced by stress reduction programs: On the effectiveness of two approaches. <i>International Archives of Occupational and</i> <i>Environmental Health</i> , 80 (6), 505–515.	Netherlands	Targeted Stress Inoculation Training (SIT)	Group	Secondar
	Willert, M.V., Thulstrup, A.M. and Bonde, J. P., 2011. Effects of a stress management intervention on absenteeism and return to work-results from a randomized wait-list controlled trial. <i>Scandinavian journal of work, environment & health</i> , 37(3), pp.186-195.	Denmark	Targeted stress management training	Group	Secondar
	Bakker, I. M., Terluin, B., van Marwijk, H. W. J., van der Windt, D. A. W. M., Rijmen, F., van Mechelen, W., and Stalman, W. A. B., 2007. A Cluster- Randomised Trial Evaluating an Intervention for Patients with Stress-Related Mental Disorders and Sick Leave in Primary Care. <i>PLoS Clinical Trials [online]</i> , 2 (6), e26.	Netherlands	Indicated Minimal Intervention for Stress-related mental disorders with Sick leave (MISS) based on Problem-Solving Therapy	1:1	Tertiary
	Blonk, R. W. B., Brenninkmeijer, V., Lagerveld, S. E., and Houtman, I. L. D., 2006. Return to work: A comparison of two cognitive behavioural interventions in cases of work-related psychological complaints among the self-employed. <i>Work & Stress [online], 20 (2), 129–144.</i>	Netherlands	Indicated combined intervention (CI) CBT techniques plus workplace assessment and adjustments versus CBT alone	1:1	Tertiary
12.	Bonde, J. P., Rasmussen, M. S., Hjøllund, H., Svendsen, S. W., Kolstad, H. A., Jensen, L. D., and Wieclaw, J., 2005. Occupational disorders and return to work: A randomized controlled study. <i>Journal of Rehabilitation Medicine</i> , 37 (4), 230–235.	Denmark	Indicated low cost rehabilitation support based on "systemic thinking theory" SFBT with workplace liaison plus CAU	1:1	Tertiary
13.	Brouwers, E. P. M., Tiemens, B. G., Terluin, B., and Verhaak, P. F. M., 2006. Effectiveness of an intervention to reduce sickness absence in patients with emotional distress or minor mental disorders: a randomized controlled effectiveness trial. <i>General hospital psychiatry [online], 28 (3), 223–9.</i>	Netherlands	Indicated problem-solving plus graded activity	1:1	Tertiary
	Burnand, Y., Andreoli, A., Kolatte, E., Venturini, A. and Rosset, N., 2002. Psychodynamic Psychotherapy and Clomipramine in the Treatment of Major Depression. <i>Psychiatric Services</i> , 53 (5), pp.585-590.	Switzerland	Indicated combined psychodynamic psychotherapy plus Clomipramine	1:1	Tertiary
	De Vente, W., Kamphuis, J. H., Emmelkamp, P. M. G., and Blonk, R. W. B., 2008. Individual and group cognitive-behavioral treatment for work-related stress complaints and sickness absence: A randomized controlled trial. <i>Journal of Occupational Health Psychology</i> [online], 13 (3), 214–231.	Netherlands	Indicated stress management training low intensity (1:1 format) versus high intensity (group format)	Group or 1:1	Tertiary
	Knekt, P., Lindfors, O., Laaksonen, M. A., Raitasalo, R., Haaramo, P., and Järvikoski, A., 2008. Effectiveness of short-term and long-term psychotherapy on work ability and functional capacity - A randomized clinical trial on depressive and anxiety disorders. <i>Journal of Affective Disorders</i> , 107 (1–3), 95–106.	Finland	Indicated long-term psychodynamic psychotherapy versus medium-term psychodynamic psychotherapy versus short-term Solution Focused Brief Therapy (SFBT	1:1	Tertiary
17.	Nystuen, P. and Hagen, K. B., 2006. Solution-focused intervention for sick listed employees with psychological problems or muscle skeletal pain: a	Norway	Indicated Solution Focused Brief Therapy	Group	Tertiary

(1), 69. 18. Rebergen, D.S., Bruinvels, D.J., Bezemer, P.D., van der Beek, A.J. and Van	Netherlands	Indicated guideline-based care (GBC) i.e. stress	1:1	Tertia
Nechelen, W., 2009. Guideline-based care of common mental disorders by occupational physicians (CO-OP study): a randomized controlled trial. <i>Journal of</i> occupational and environmental medicine, 51(3), pp.305-312.	Inclicitatios	inoculation training plus graded activity	1.1	renda
 Schoenbaum, M., Unützer, J., McCaffrey, D., Duan, N., Sherbourne, C. and Wells, K. B., 2002. The effects of primary care depression treatment on patients' clinical status and employment. <i>Health Services Research</i>, 37(5), pp.1145-1158. 	Switzerland	Indicated Quality Improvement clinic: QI Therapy (CBT)	Group or 1:1	Tertiar
 Stenlund, T., Ahlgren, C., Lindahl, B., Burell, G., Steinholtz, K., Edlund, C., Nilsson, L., Knutsson, A., and Slunga Birgander, L., 2009. Cognitively oriented behavioral rehabilitation in combination with qigong for patients on long- term sick leave because of burnout: REST-A randomized clinical trial. International Journal of Behavioral Medicine, 16 (3), 294–303. 	Sweden	Indicated CBT-informed rehabilitation programme plus qigong	Group	Tertiar
 Van Der Klink, J. J. L., Blonk, R. W. B., Schene, A. H., and Van Der Klink, J. L., 2003. Reducing long term sickness absence by an activating intervention in adjustment disorders: a cluster randomised controlled design. <i>Occupational and</i> <i>environmental medicine</i>, [online], 60(6), pp.429-437. 	Netherlands	Indicated stress inoculation training	1:1	Tertiar
 Van Oostrom, S. H., Heymans, M. W., de Vet, H. C. W., van Tulder, M. W., van Mechelen, W., and Anema, J. R., 2010. Economic evaluation of a workplace intervention for sick-listed employees with distress. <i>Occupational and</i> <i>Environmental Medicine</i> [online], 67 (9), 603–610. 	Netherlands	Indicated guideline-based care plus participatory workplace problem-solving intervention delivered by return-to-work coordinator	1:1	Tertiar
 Vlasveld, M. C., Van Der Feltz-Cornelis, C. M., Adèr, H. J., Anema, J. R., Hoedeman, R., Van Mechelen, W., and Beekman, A. T. F., 2012. Collaborative care for major depressive disorder in an occupational healthcare setting. <i>British Journal of Psychiatry</i>, 200 (6), 510–511. 	Netherlands	Indicated collaborative care based on problem solving therapy (PST)	1:1	Tertiar
 Wang, P. S., Simon, G. E., Avorn, J., Azocar, F., Ludman, E. J., McCulloch, J., Petukhova, M. Z., and Kessler, R. C., 2007. Telephone screening, outreach, and care management for depressed workers and impact on clinical and work productivity outcomes: A randomized controlled trial. <i>Journal of the</i> <i>American Medical Association</i>, 298 (12), 1401–1411. 	USA	Indicated multi-disciplinary team intervention involved enhanced depression care (i.e. anti-depressant medication plus targeted psychotherapy) plus independent case management with phone outreach and phone CBT for patients who declined in-person psychotherapy	1:1	Tertiar

Supplementary Methods S1

FOCUS GROUP A DISCUSSION GUIDE

- 1. What format would be best for the pilot group? For example:
 - a) shorter term (12 sessions or less)
 - b) longer-term (12 sessions or more)
 - c) once-weekly or less
 - d) twice-weekly or more
 - e) 1 ¹/₂ 3-hour sessions (over 6-12 weeks)
 - f) ¹/₂ full day sessions (over 4-6 weeks)
- 2. When would be the best time to run the pilot group? For example:
 - a) during the day
 - b) in the evening
 - c) at weekend
- 3. Where would be the best place to run the pilot group? For example:
 - a) out-patient clinic
 - b) hospital site
 - c) community mental health team
 - d) church hall
 - e) library
- 4. How could the sessions be structured? For example:
 - a) pair work
 - b) small group work (trauma-focussed or schema-focussed etc)
 - c) skills practice (coping-strategies or problem-solving etc)
 - d) experiential learning (in vivo self-awareness exercises)
 - e) goal-setting
 - f) presentation of psycho-educational material
 - g) reflective journal
 - h) mindfulness
 - i) negotiating self-help out-of-session plans and reviewing progress
 - j) role play
 - k) ice breakers
- 5. What form of evaluation could be used? Examples will be available to examine:
 - a) CORE

- b) ARM-5
- c) CSES
- d) HSE
- e) IIP 32
- f) GAF
- g) HAM-D
- h) Weekly free text

6) What format would be best for assessment/preparation for the pilot group? For example:

- a) one x 1:1 session to complete screening assessment
- b) more than one x 1:1 session to complete full holistic assessment
- c) use of assessment forms, worksheets and diaries
- d) telephone screening
- e) group information-giving session
- f) use of group assessment, preparation and motivational enhancement groups

7) In terms of ground rules and group guidelines, what issues are non-negotiable? For example:

- a) confidentiality
- b) no offensive or insulting language
- c) no physical or verbal aggression
- d) no misuse of alcohol or illegal drugs before or during a session
- e) no outside contact with other members of the group during the course of therapy
- f) development of a crisis/relapse prevention plan
- g) willingness to undertake out-of-session assignments
- h) development of behavioural change goals from personal problem-target list
- i) reliable attendance
- j) peer support (expectation that group members will actively help each other in the session by listening, asking questions, giving feedback and constructive criticism etc)

8) If there is a conflict between members of the group or between member/s and the therapists, how should this be resolved? For example:

- a) through group discussion
- b) through separate meetings between those involved
- c) contact with professionals and/or peer support workers not directly involved
- d) use of complaints policy and/or PALS

9) What role could a peer support worker fulfil? For example:

a) screening ("telling my story" re work etc)

- b) information-giving
- c) helping with crisis/relapse-prevention planning
- d) conflict resolution
- e) sign-posting to community/online resources
- f) sharing his/her own story of recovery
- g) practical tasks (preparing handouts, setting up room, providing refreshments etc)
- h) liaison with carers if appropriate

10) What would be the pros and cons of low-key liaison (i.e. by post or 'phone) with the service- employer and/or occupational health staff?

11) What would be the pros and cons of involving a carer?

12) How might the self-help manual be employed in the group? For example:

- a) group members read specific chapters in-between sessions
- b) group members bring self-selected sections of the book to discuss in the group
- c) group members only use sections of the book that are relevant to their needs
- d) group facilitators use the book to present specific therapeutic concepts
- e) group facilitators split the group into 2 sub-groups to discuss different sections of the book

13) What strategies could be used to reduce dropouts?

14) How might rates of follow up be improved?

FOCUS GROUP B DISCUSSION GUIDE

- 1. In what ways would the current pathway enable the identification of potential recruits or not?
- 2. At what point following referral could PTS staff identify service-users where workplace stress may be negatively affecting depression and/or depression may be negatively affecting workplace performance?
- 3. How might PTS staff work with referrers to persuade them to provide information about employment problems or work-related stress?
- 4. How might the researcher persuade PTS staff to refer service-users who match the research criteria on initial assessment for screening re the pilot study?
- 5. How might the researcher work with professionals to provide baseline data (i.e. GAF & HAM-D scores)?

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- 6. What are the potential pros and cons of PTS staff conducting baseline and end-oftreatment assessments for the pilot group?
- 7. How might PTS staff work with service-users to elicit information about employment problems or work-related stress?
- 8. How might PTS staff prioritise clinical needs where employment problems or workrelated stress is only part of the initial presentation?
- 9. What are the pros and cons of all PTS staff being expected to offer therapy to participants in the "treatment-as-usual" group?
- 10. What are the potential pros and cons of prioritising occupational health over other issues?
- 11. What are the potential pros and cons of liaison with the service-user's employer either verbally (face-to-face, by 'phone) or in writing?
- 12. What are the potential pros and cons of liaison with the service-user's carer either verbally (face-to-face, by 'phone) or in writing?
- 13. What are the potential pros and cons of signposting the service-user to different organisations such as Job Centre Plus (e.g. disability employment advisors, Access to Work), trade unions, professional bodies, advocacy services, welfare rights providers, employment law specialists etc?
- 14. What ethical dilemmas might arise for PTS staff when focussing on the service-user's employment problems or work-related stress?

Supplementary Table S2. Worked example of realist synthesis data extraction form.

Context	Intervention	(Probable) Mechanism	Outcome
Who? (Client/patient/employee etc.) Employees at risk of future sickness absence (banking company). Whom? (High/low intensity practitioner etc.) Delivered by clinical psychologists who had received 2 days training plus 1-day booster session. Where? (Setting/base etc.) At the worksite. When? (Stage of illness/help-seeking etc.) Employees who were screened and at risk of sickness absence due to depression. Which circumstances? (Socio-economic policy etc.) Concern about employees having undisclosed depressive symptoms which may lead to long-term sickness absence impacting negatively on productivity.	What? (Focus/format/duration/dose/volume/frequency /content etc.) Secondary preventative individual level intervention. Low volume/high intensity: an initial 7 x 45 minutes with the option of a further 5 sessions if necessary following review of progress delivered in a 1:1 format. How? (Relationship with therapist and/or group members/between and within-session activities/provision of resources etc.) Relationship with therapist, teaching problem-solving skills, using CBT principles, agreeing between-session assignments.	 Why? Which theory? (Explicit/implicit/test of theory/operationalisation/fidelity to model etc.) The intervention aimed for more adaptive patterns of thinking and behaviour in order to change the employee's feelings (emotional/physiological). Developing more helpful thinking patterns. Developing more helpful behavioural patterns. Developing more helpful coping skills Being able to set my own goals. Being able to reframe stressful events & problems as challenges to be overcome. Feeling better with fewer symptoms of stress / depression. 	Work status? (What were the expected outcomes? What was achieved Statistically significant shorter sickness absence duration compared to CAU over 12 mont follow up. Clinical status? (What were the expected outcomes? What was achieved Statistically significant reduction depressive symptoms compared to CAU over 12 months follow u
Is this meaningful? These mechanisms may be crucial to job r	etention in employees with moderate-severe depression becau les which perpetuate low mood. If activated, these mechanism	use depression is characterised by demotivation,	procrastination, negatively bias

Supplementary	Table S3.	The component checklist.	
ouppionionitary		The component oncomot.	

	STRATEGIC COMPONENTS
	Cognitive Behavioural Therapy (CBT)
	Psychodynamic Psychotherapy (PP)
Madala a farma dia a	Problem-Solving Therapy (PST)
Models of practice	Solution Focused Brief Therapy/ Coaching (SFBT)
	Stress Management or Stress Inoculation Training (SMT/SIT)
	Staff Support (SS)
	Tertiary preventative programmes
Level of prevention	Secondary preventative programmes
	Primary preventative programmes
Level of intervention	Individual or micro level
	Organisational or meso level
	Societal or macro level
	Interface level

	OPERATIONAL COMPONENTS
Focus	Person-focused
Tocus	Work-focused
	Clinic
	Worksite
Base for intervention delivery	Social Security offices
-	Client's home
	Alternative community venues such as church halls, libraries, colleges, or leisure centres
	High intensity interventions are delivered by qualified and experienced psychologists or psychotherapists
Intensity	Low intensity interventions are delivered by generic practitioners other than qualified and experienced psychologists or psychotherapists or non-clinical workers such as Human Resources personnel or peer support volunteers
	1:1 format
Format	Group format
	Blended
	Short-term < 12 weeks
Duration	Medium-term >12 weeks < 9 months
	Long-term > 9 months
	Very low dose < 3 hours
	Low dose >3 hours < 8 hours
Dose	Medium dose > 8 hours < 24 hours
	High dose > 24 hours < 32 hours
	Very high dose > 32 hours
	Low volume interventions are when one practitioner provides the equivalent of one hour of treatment for one client.
	Medium volume interventions are when one practitioner provides the equivalent of one
	hour of treatment for between two to four clients.
Volume	High volume interventions are when one practitioner provides the equivalent of one hour
	of treatment for between five to twelve clients.
	Very high-volume interventions are when one practitioner provides the equivalent of one
	hour of treatment for more than twelve clients.
	One-off session
	Daily
	2-3 times per week
Frequency	Once per week
	Every 2-3 weeks
	Monthly/bimonthly

CONTENT COMPONENTS	
	Fight-flight response, physiological symptoms
Psychoeducation	Rationale for behavioural activation, exposure
	Info about how thoughts, feelings, and behaviour interact
	Information about coping in general
	Info about stress, symptoms, causes of mental health problems

	Information about healthy lifestyle, self-care
	Relaxation, mindfulness
Dehevieurel ekille	Behavioural activation, activity scheduling
Behavioural skills	Graded exposure, de-sensitisation
	Crisis planning, relapse prevention
	Acceptance of distressing thoughts & feelings
Emotions, affect regulation	Expressing feelings appropriately
	Eliciting client's feelings in relation to self / others / therapist
4	Recognising faulty thinking, behavioural experiments
	Disputation
Cognitive restructuring	Reappraisal, reattribution
ooginave reourdotaning	Positive reframing
	Highlighting solutions / imagining a future without the problem
\sim	Active problem-solving (individual or team-based)
	Coping with internal stressors e.g. negative inner dialogue
Coping strategies	Coping with external stressors e.g. high workload
	Goal setting, decision-making
	Insight, self-awareness
Ecous on intro noroonal	0,
Focus on intra-personal	Improving self-esteem Personal empowerment through assertiveness
	Outsight, inter-personal awareness
Ecour on inter nervens!	Coping with people
Focus on inter-personal	Social diversion, social support, social connectedness
	Managing conflict
	Improving ways of communicating and interacting
	PROCESS COMPONENTS
	Didactic lectures / PowerPoint presentations
	Experiential exercises / active learning techniques
Style of teaching-learning	Case studies
	Guided self-help
	Group discussion, large group plenary, Q & A
Facilitation of peer-to-peer	Working in pairs or triads
dialogue	Conversations in small groups
	Behavioural rehearsal / role play / assertiveness
	Progressive muscular relaxation / mindfulness
In vivo activities & skills practice	Video feedback / inter-personal process recall (IPR)
	Goal setting, problem-solving
	Physical exercise
	Directive therapeutic relationship (conscious material)
	Non-directive therapeutic relationship (unconscious material)
	Repairing ruptures, limited re-parenting, corrective emotional experience
Relationship with therapist	Advice-giving, offering support
-	Motivational enhancement, "circular / miracle questions"
	Probing for exceptions, asking scaling questions
	Participatory teamwork
	Perspective-taking, "reality management"
	Sharing problems together, exchanging experiences
Relationship with group members /	Generating solutions and reviewing goals together
significant others	Social support / helping others / validating others' emotions
	Inter-personal learning through peer feedback
	"Disconfirmation of the uniqueness of one's problems"
	Social contact before, during, after and between sessions
	Inviting spouse or partner to specific group sessions
	Homework assignments / challenges
Between-session activities	Keeping a journal / diary / self-monitoring / self-reflection
	Booster sessions following completion of programme
	Text reminders / email counselling / outreach by 'phone
	Listening to each other
Sharing emotional experiences	Working with transference, resistance, ambivalence, defences
onaring emotional experiences	Confrontation, clarification, and interpretation
	Expressing empathy towards each other
Provision of resources	Audio-recordings of relaxation / mindfulness training

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	JOB RETENTION STRATEGIES
	Information about occupational hazards
Provision of information	Information about coping at work
	Information about organisational supports e.g. EAP counselling
	Stress surveillance / use of screening tools / job profiling
	Workplace assessment
Focus on the workplace	Environmental improvement action plans
i ocus on the workplace	Regular monitoring of action plans
	Individualised supervision / appraisal, focus on stress / work
	Implementation of new solutions / coping strategies at work
Support for line managers /	Advice on reducing psychosocial hazards in the workplace
supervisors	Info about how to deal with sources of occupational stress
espenneere	Training for managers in counselling skills
Liaison with other stakeholders	Facilitated dialogue with line manager, roundtables
	Provision of up-dates to & collaboration between stakeholders
	Negotiation of workplace adjustments Agreed return-to-work / rehabilitation plan
Help getting back to work	Conflict resolution / mediation
help getting back to work	Gradual exposure to work situation
	Phased work resumption / part-time hours
	Place-then-train approach
	Further on-the-job training / retraining
Supporting employment	Transfer to another job, redeployment
	Time- and task-management skills
	Endorsing work as a resource for wellbeing & self-esteem
Promoting employee's career	Taking responsibility for one's own professional development
management	Emphasising lifelong learning
manayement	Being adaptable & flexible in a changing organisational context

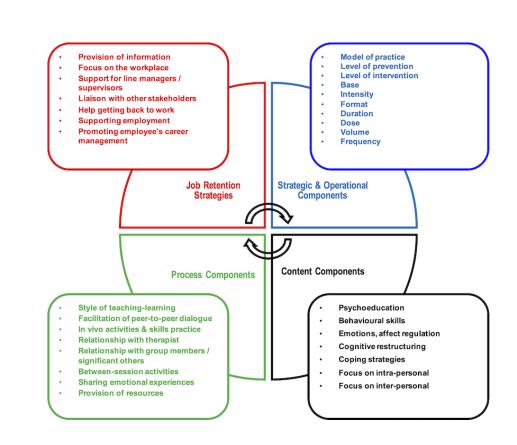
Tables	
Table 1. Four broad expla	natory theories underpinning psychotherapeutic
interventions	
	Effort-reward imbalance model

	Effort-reward imbalance model
	Person-environment fit model
-	High demands-low control-low support model
1. Occupational stress	Demand-support-constraint model
theories	Job strain model
	Over-commitment model
	Burnout model
	Organisation injustice models
	Cognitive and behavioural
2. Psychological	Affect regulation
theories	Psychodynamic
	Positive psychology
	Social cognitive theory
3. Social / interpersonal theories	Interpersonal theory of depression
lieories	Social problem-solving
4. Biomedical theories	Physiology of stress

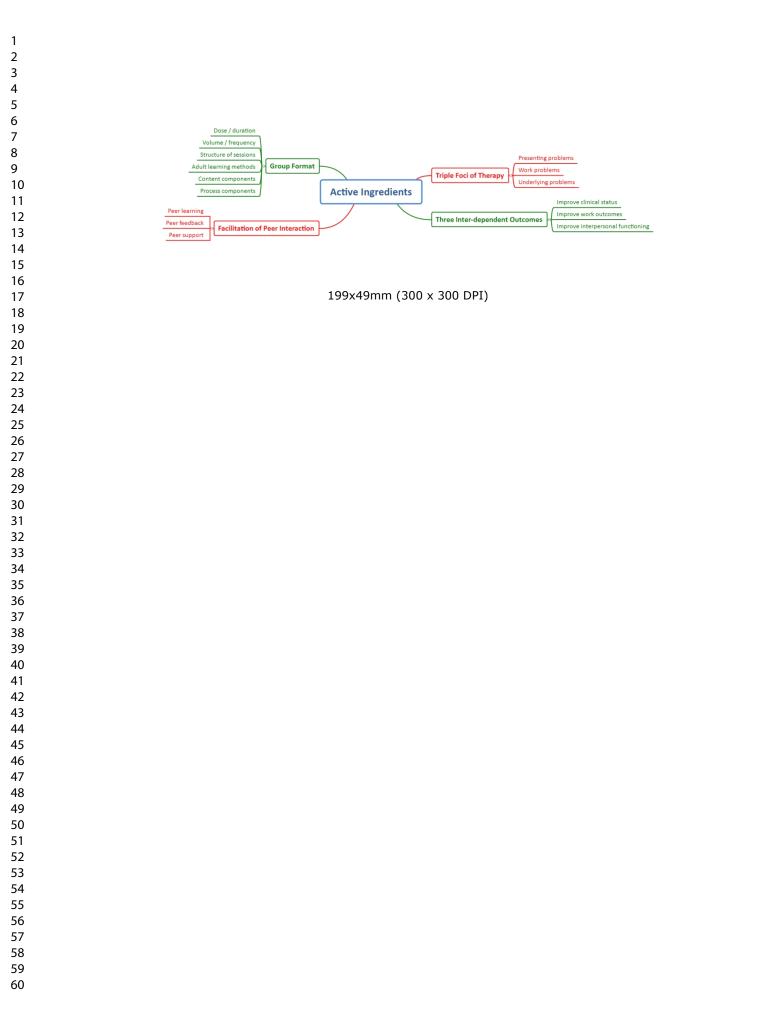
Table 2. Generating programme theory

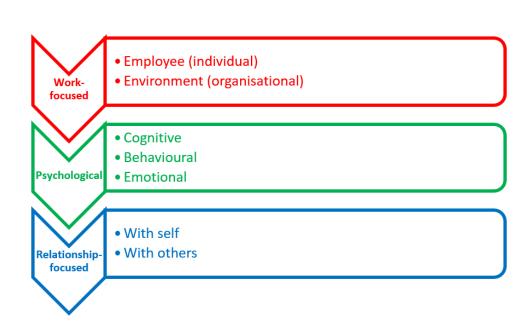
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	Programme theory: Example 1
CONTEXT	IF group therapists facilitate peer interaction using a structured-directive leadership style to set up opportunities for peer learning, peer feedback
	and peer support,
OUTCOME	THEN clients are likely to experience an increase in self-reported self- efficacy and a decrease in self-reported interpersonal problems,
	BECAUSE clients learn how to become their own therapist by interacting
MECHANISM	with each other for the explicit purpose of cognitive restructuring, behavioural activation, emotional regulation, or problem-solving for
	example.
	Programme theory: Example 2
CONTEXT	IF group therapists encourage clients to participate fully in group therapy sessions and engage in between-session assignments,
OUTCOME	THEN clients are likely to report less emotional distress and to maintain their employment,
MECHANISM	BECAUSE they have acquired, consolidated, and applied one or more basic CBT concepts and skills.

Seeing myself differently	a) Shift in perception: people	
Seeing others differently		1. REALISE
Seeing my problems differently	b) Shift in perception: problem	
Seeing others' problems differently		
Speaking about my experience	a) Learning from each other	
Listening to others' experience		2. REFLECT
Understanding myself (insight)	b) Understanding each other	2.1(21 2201
Understanding others (outsight)		
Self-regulating	a) Managing my mood	
Co-regulating		3. REGULAT
Active coping	b) Coping strategies	J. NEOULAI
Passive coping		
Practising skills	a) Managing my behaviour	
Goal-setting		4. RESOLVE
Saying what I want and finding a shared solution	b) Working with conflict	4. KLOOLVL
Hearing what others want and finding a shared solution	b) working with connict	
Giving feedback	a) Two-way feedback	
Receiving feedback	a) Two-way leeuback	5. RELATE
Helping myself	b) Helping each other	J. KELATE
Helping others	b) heiping each other	
Disclosing mental health problems or work-related stress	a) Staving at work	
Negotiating reasonable adjustments		
egotiating phased return b) Returning-to-work		6. RETAIN
Negotiating on-going support	D) Returning-to-work	
KEY: RED = work-focused mechanisms		
GREEN = psychological mechanisms		
BLUE = relationship-focused mechanisms		

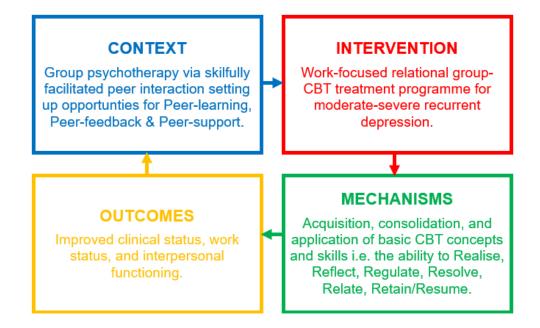


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