Cognitive-behavioural therapy reduces unwanted thought intrusions in generalized anxiety disorder

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ABSTRACT

Background and objectives: Voluntary attempts to suppress certain thoughts can paradoxically increase their intrusive return. Particular impairments in thought suppression are thought to be key mechanisms in the pathogenesis of mental disorders. To assess the role of this processing bias in the maintenance of generalized anxiety disorder (GAD), we investigated whether it is susceptible to cognitive-behavioural treatment (CBT).

Methods: 22 GAD patients and 22 healthy controls (HC) were tested twice within 15 weeks, with patients receiving CBT in between. A subset of patients was additionally tested while waiting for treatment to control for retest effects. Using a mental control paradigm, we measured intrusion frequency during the voluntary suppression of thoughts related to (a) the individual main worry topic, (b) a negative non-worry topic, and (c) a neutral topic. Self-reported worry was measured before and after treatment, and at 6-months follow-up.

Results: Compared to HC, GAD showed specifically more worry-related intrusions. CBT reduced this bias to a healthy level, over and above mere test-retest effects.

Limitations: This study could not clarify whether the demonstrated effect mediates other changes, or how it relates to other cognitive biases in GAD.

Conclusions: The results indicate that thought suppression processes are not only impaired in GAD, but that the impairment is specific to the patients’ worries, and that it can be successfully targeted by CBT. This highlights the importance of thought suppression processes in the maintenance of GAD.

Contents lists available at SciVerse ScienceDirect
Journal of Behavior Therapy and Experimental Psychiatry
journal homepage: www.elsevier.com/locate/jbtep

1. Introduction

Generalized anxiety disorder (GAD) is characterized by excessive worry regarding a broad range of topics, such as health, financial security and relationships. Patients experience severe difficulty in controlling and stopping worrying thoughts, to a degree that it significantly affects everyday life functioning. The lack of control over worry processes is such a central component of GAD that it has been added as a defining diagnostic criterion to the fourth version of the Diagnostic and Statistical Manual of Mental Disorders (DSM; American Psychological Association, 2000). Following the Metacognitive Model of GAD (Wells, 2005), negative beliefs about worry play an essential role in worry processes spiralling out of control: Concerns that worry thoughts might become uncontrollable, unbearable, or even dangerous, also described as worry about worry, fuel the development of control and avoidance strategies such as reassurance or thought suppression. However, these control attempts prevent experiences that would disconfirm dysfunctional beliefs about worry, thereby reinforcing the relevance and frequency of worry intrusions. This study addresses the impact of cognitive-behaviour therapy (CBT) on such worry intrusions, which we measured using an experimental thought suppression paradigm.

Experimental research has shown that thought suppression, a strategy GAD patients are believed to apply in an attempt to control intrusions, paradoxically exacerbates the intrusive return of unwanted thoughts (Wegner, Schneider, Carter, & White, 1987). The theory of ‘ironic processes’ (Wegner, 1994) assumes that two processes are involved when trying to keep unwanted thoughts outside of awareness: a top-down operating process to actively draw attention away from aversive thoughts towards distracter thoughts, and an automatic monitoring process maintaining vigilance for the
2.1. Participants

Twenty-two patients with a GAD diagnosis and 22 control participants were tested. Patients were recruited from the waiting list of the Dresden University of Technology outpatient clinic for psychotherapy. DSM-IV diagnoses were assessed using the Composite International Diagnostic Interview (CIDI; Wittchen & Pfister, 1997). Six of the patients fulfilled criteria for comorbid major depression and two for a specific phobia. Healthy controls (HC) were recruited via newspaper ads. They were screened for psychiatric diagnoses using the Anxiety Disorders Interview Schedule for DSM IV (ADIS; DiNardo, Brown, & Barlow, 1994). To be included in the study, they were required not to clinically or subclinically fulfill the criteria of any DSM-IV diagnosis, and not to fulfill any of the criteria for a GAD diagnosis. Educational level, age, and gender were matched between the two groups (years of education: GAD $M = 14.3$, $SD = 2.1$, HC $M = 14.3$, $SD = 2.0$, $t(42) = .1$, $p = .943$; age: GAD $M = 44.2$, $SD = 13.2$, HC $M = 42.1$, $SD = 14.6$, $t(42) = .5$, $p = .613$; gender: GAD 68% female, HC 73% female, $X^2(1) = .1$, $p = .741$).

2.2. Procedure and materials

2.2.1. General procedure

Each participant was invited to two experimental assessments, with 15 weeks in between. While GAD participants received CBT treatment during that time, HC were not given any intervention. In addition, a subset of GAD patients ($N = 8$) was randomly selected to additionally participate in a baseline assessment 15 weeks before treatment. These additional data were recorded to allow for the comparison of treatment effects to mere test–retest effects in the experimental task. During each session, participants worked on the Mental Control Task. Furthermore, they completed the Inventory to Diagnose Depression questionnaire (IDD; Zimmermann, Coryell, Wilson, & Corenthal, 1986) and the trait form of the State-Trait Anxiety Inventory (STAIT; Spielberger, Gorsuch, Lushene, Vagg, & Jacobs, 1983). GAD participants were also given the Penn State Worry Questionnaire (PSWQ, Meyer, Miller, Metzger, & Borkovec, 1990) to assess trait worry and to capture the general, excessive, and uncontrollable characteristics of pathological worry, and the White Bear Suppression Inventory (WBSI; Wegner & Zanakos, 1994) to measure the individual experience of intrusive thoughts and images (Schmidt et al., 2009). Treatment success was followed up in GAD patients by re-applying PSWQ and WBSI 6 months after the end of treatment.

2.2.2. Treatment

Psychologists currently undergoing postgraduate clinical psychology training delivered protocol-driven CBT over 15 weekly sessions (see Hoyer et al., 2009). Therapists were intensively trained, and all sessions were videotaped for adherence monitoring during weekly team supervisions (JH). GAD patients were recruited

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1. Subsample of these participants had also taken part in a previously published study (Reinecke et al., 2010).
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