A cognitive reappraisal intervention for the reduction of anxiety in eating disorders: an experimental study with exposure in virtual reality

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Ethical review Approved WMO **Status** Completed

Health condition type Eating disorders and disturbances

Study type Interventional

Summary

ID

NL-OMON53983

Source

ToetsingOnline

Brief title

Anxiety, emotion regulation and eating disorders in virtual reality

Condition

Eating disorders and disturbances

Synonym

Eating disorders, eating problems

Research involving

Human

Sponsors and support

Primary sponsor: GGZ Rivierduinen Eetstoornissen Ursula

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Source(s) of monetary or material Support: Onderzoeksbudget GGZ Rivierduinen

Intervention

Keyword: Anxiety, Eating disorders, Emotion regulation, Virtual reality

Outcome measures

Primary outcome

The primary outcome focuses on the change in subjective anxiety for all participants during the experiment.

Secondary outcome

The secondary outcome focuses on change in physical measures of anxiety, and investigates if these are similar to the subjective measures.

Study description

Background summary

Eating disorders are serious psychological disorders that often involve the experience of anxiety. Many individuals with eating disorders (EDs) use ED behaviours (i.e. dieting, purging or binging) to regulate anxiety. Over time, ED behaviours will function as an emotion regulation (ER) strategy. Empirical studies suggest a greater use of maladaptive ER strategies and a reduced utilization of adaptive ER strategies in populations with EDs compared to a healthy population. Related to the important role of adaptive ER strategies in the regulation of anxiety it appears crucial to train these strategies to people with EDs. Most existing experiments that train adaptive emotion regulation strategies for the reduction of anxiety are however conducted by showing pictures and videos of anxious situations in a laboratory setting. This limits the interaction between the individual and environment, resulting in a reduced induction of anxiety. Virtual reality (VR) provides an alternative to this exposure by reproducing a real life environment, and stimulating an individual*s presence and interaction with that environment. Although there are several benefits of VR in inducing anxiety and practicing adaptive ER strategies like reappraisal, these elements are not combined in a study in the ED field. Evidence from related psychological fields indicates that training ER techniques in VR can be effective in the reduction of anxiety. These findings have implications for ED research, by proposing that cognitive reappraisal

strategies can be effective in the reduction of anxiety when exposed to anxious situations in VR.

Study objective

The current study investigates the effectiveness of an intervention that focusses on the adaptive emotion regulation strategy cognitive reappraisal for people with EDs in the reduction of anxiety. This intervention will be compared to a control task. Anxiety will be induced by exposing people with EDs to a VR restaurant setting. Furthermore, the severity of the eating disorder and existing emotion regulation strategies and the subtype of the eating disorder will be examined to identify for which persons the intervention is effective in the reduction of anxiety.

Study design

The study will have an experimental design. The experimental group will be exposed to a cognitive reappraisal intervention in a VR restaurant. In the control group people will be exposed to the same restaurant setting but they will do a suppression task.

Intervention

Burdens are remained at an acceptable level since participants* engagement in the study includes a single session and takes approximately two hours. It is possible that participants experience nausea during the experiment. To prevent this, participants sit in the normal and the VR environment. When participants participant in the experiment, they receive a Bol.com x10 gift card and travel allowance

Study burden and risks

Burdens are remained at an acceptable level since participants* engagement in the study includes a single session and takes approximately two hours, and the questionnaire focussing on EDs can be completed at home. It is possible that they experience nausea and some stress during the experiment. To prevent this, participants sit in the normal and the VR environment. When participants complete the experiment, they receive a Bol.com ¤20 gift card and travel allowance.

Contacts

Public

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Trial sites

Listed location countries

Netherlands

Eligibility criteria

Age

Adolescents (16-17 years) Adults (18-64 years)

Inclusion criteria

- 1) 16 years or above
- 2) diagnosed with an eating disorder (Anorexia Nervosa, Bulimia Nervosa or Eating Disorder Not Otherwise Specified) according to the DSM5

Exclusion criteria

- 1) hearing or vision related problems
- 2) suicidal behaviors, psychosis, or severe depression

Study design

Design

Study type: Interventional

Intervention model: Parallel

Allocation: Randomized controlled trial

Masking: Single blinded (masking used)

Control: Active

Primary purpose: Treatment

Recruitment

NL

Recruitment status: Completed

Start date (anticipated): 01-11-2022

Enrollment: 48

Type: Anticipated

Ethics review

Approved WMO

Date: 08-02-2023

Application type: First submission

Review commission: METC Leiden-Den Haag-Delft (Leiden)

metc-ldd@lumc.nl

Study registrations

Followed up by the following (possibly more current) registration

No registrations found.

Other (possibly less up-to-date) registrations in this register

No registrations found.

In other registers

Register ID

CCMO NL81312.058.22