

**Disclosure:** No significant relationships.

**Keywords:** Mindfulness-based Emotional Regulation; acceptance and commitment therapy; randomized controlled trial; cognitive flexibility

## EPV0561

### On gender and stroop effect. The REM-ACT study: Acceptance and commitment therapy versus a mindfulness-based emotional regulation intervention in anxiety disorders. A randomized controlled trial

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**Introduction:** Results about the effects of mindfulness training on the executive function of inhibition are mixed. Research about interventions in anxiety disorders is needed to exam the differential efficacy among men and women, and the factors involved in those potential gender differences.

**Objectives:** To compare the effectiveness of Acceptance and Commitment Therapy (ACT) versus a Mindfulness-based Emotional Regulation (MER) intervention on inhibitory control according to gender.

**Methods:** This study was carried out in a Mental Health Unit in Spain (Colmenar Viejo, Madrid). Firstly, 80 adult patients with anxiety disorders were randomized according to the score on the Acceptance and Action Questionnaire-II (blocking factor), of whom, 64 patients decided to participate (mean age = 40.66, S.D. = 11.43; 40 females). Each intervention was weekly, during 8 weeks, guided by two Clinical Psychology residents. A 2x2x2 mixed ANOVA (pre-post change x intervention type x gender) was conducted, with Sidak-correction post-hoc tests. The dependent variable was the Interference score of the Stroop test.

**Results:** Normality and homoscedasticity assumptions were met. No statistically significant differences were observed on age or gender between interventions. A statistically significant interaction effect was observed between pre-post change x intervention x gender on Interference [ $F_{(1, 52)} = 5.004$ ,  $p = .030$ ; statistical power observed = 59.3%]. Improvement in interference was larger for women after ACT ( $p = .000$ ) and for men after MER ( $p = .002$ ).

**Conclusions:** These preliminary results show improvements in inhibition after the two interventions examined. However, each treatment maximizes improvement in different ways according to gender. Further research is required.

**Disclosure:** No significant relationships.

**Keywords:** Mindfulness-based Emotional Regulation; Stroop effect; acceptance and commitment therapy; randomized controlled trial

## EPV0562

### Attentional functioning after two online mindfulness-based group interventions: Acceptance and commitment therapy and a mindfulness-based emotional regulation intervention in anxiety disorders. Preliminary results

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**Introduction:** The relationship between attentional functioning and mindfulness is an intensive field of study, mainly in face-to-face interventions. However, no neuropsychological study addressed the effect of online mindfulness-based interventions on this cognitive function.

**Objectives:** To assess changes on attentional functioning after two online mindfulness-based group interventions in adult patients with anxiety disorders.

**Methods:** This study was carried out in a Mental Health Unit in Spain (Colmenar Viejo, Madrid). Thirteen adult patients (age mean = 51.69 years, ranging from 33 to 69 years, S.D. = 11.56) with anxiety disorders completed the interventions. The group treatments were Acceptance and Commitment Therapy and a Mindfulness-based Emotional Regulation intervention, during 8 weeks, guided by two Clinical Psychology residents. Both interventions were carried out online. The dependent variables were the scores on the TMT-A (seconds), Digit span forward and Longest digit span forward (WAIS-IV). A comparison of paired-means was conducted. Statistical significance was set at  $p < .05$ .

**Results:** The normality assumption was met except for Longest digit span forward. The paired t-test showed statistically significant change between pre-treatment and post-treatment on TMT-A [ $t_{(12)} = 3.81$ ;  $p = 0.002$ ; Cohen's  $d = 1.056$ ; statistical power observed = 94.0%], but not on Digit span forward ( $p = .45$ ). Wilcoxon signed ranks test showed no statistically significant change on Longest digit span forward ( $p = .56$ ).

**Conclusions:** These results show a large improvement on visual attention and speed of visuomotor tracking, but not on auditory attention, after both online mindfulness-based group interventions.

**Disclosure:** No significant relationships.

**Keywords:** acceptance and commitment therapy; Mindfulness-based Emotional Regulation; Online treatments; Attention

## EPV0563

### TMT-B after two online mindfulness-based group interventions: Acceptance and commitment therapy and a mindfulness-based emotional regulation intervention in anxiety disorders. Preliminary results

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