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Improving Academic Performance in Adolescents. Effect of an ACT Protocol Focused on the most Problematic Self-Beliefs or the "Big Ones"

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INTRODUCTION

Although there has been an increase in studies regarding the efficacy of Acceptance and Commitment Therapy (ACT; Hayes, Strosahl & Wilson, 1999, 2014; Wilson & Luciano, 2001) with young clinical population, studies in school settings are rare. In addition, recent research shows the importance of addressing the Big Ones or hierarchical (most problematic self-beliefs, or self-concepts) (Gil-Luciano et al., 2019; Ruiz et al., 2016, 2018; Luciano, 2017), in that they unleash an inflexible class of behaviors that produce multiple limitations. The Big Ones are overaching self-contents characterized by a high degree of abstraction and a high magnitude of aversive functions linked to them, and contain other, more concrete and contextualized self-contents that get organized in a hierarchical way. Based on transformation of functions in hierarchical framing, recent studies have targeted the Big Ones to alter their discriminative functions for psychological inflexibility and an earlier disrupt of inflexible chain of reactions (Gil-Luciano et al., in press; Ruiz et al., 2016, 2018). To our knowledge, no prior studies have addressed psychological inflexibility with adolescents this way. The aim of this pioneer study was to develop an ACT-based protocol on the academic performance and promoting psychological flexibility through the central intervention tools (1), functional analysis assessing and focusing on the impact of the Big Ones, (2) defusion exercises, and (3) values amplification.

| U | | METHOD | | | |
|---|--------|----------|--------|----------|--|
| | SAMPLE | MEASURES | DESIGN | ANALYSIS | |

Eight adolescents, five boys (75%) and two girls (25%) between 14 and 17 years old. All of them were studying in a public Spanish High School, five were in 3rd grade and three in 4th grade. They were selected for having very poor academic performance.

- **School scores** (0-10) as an indicator of academic performance.
- **D2 Test of Attention** (Seisdedos, 2012). General measure of attention, processing speed and precision.
- Ruminative Response Scale, RSS (Spanish translation by Hervás, 2008) as an indicator of rumination.
- Avoidance Fusion Questionnaire for Youth, AFQ-Y (Spanish translation by Valdivia et al., 2016) as a indicator of psychological inflexibility.
- Depression, Anxiety and Stress Scale, DASS-21 (Antúnez and Vinet, 2012) evaluates depression, stres and anxiety.

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level, group Studen's-t test were Individual conducted. analyzed were descriptively.



INTERVENTION PROTOCOL

7 sessions (two per week) that consisted of multiple exemplar training on discriminating private events as they emerged in several academic tasks (memory tasks, numerical series, reading comprehension, etc), learning to frame them in hierarchy with the deictic I and promoting flexible reactions. Each exercise consisted of two parts: firstly, the participant performed the academic task alone and the therapist conducted a functional assessment of inflexible behavior and its consequences on the task; secondly, while performing the task again, the therapist shaped valued behavior through defusion interactions.

PROCEDURE

- 1. Pre-intervention: (1st and 2nd session) participants filled in the questionnaires and a functional assessment was performed.
- **2.** Intervention (3rd to 9th session): the ACT-based protocol was tailored to each participant.
- **3.** Post-intervention: (10th session): all measures were taken again.

RESULTS

Statistically significant MEASURE diferences

• AFQ-Y: All subjects (except P7) decreased their score, with a particularly drastic reduction in P9 and P11, who had clinical

A

design



DISCUSSION

- To our knowledge, this is the 1st study that addresses the effectiveness of a protocol aimed at promoting psychological flexibility by addressing the so-called Big Ones in adolescents in the academic performance.
- The protocol has been shown to be effective in reducing psychological inflexibility (AFQ-Y) and rumination (RRS), as well as in improving attention/concentration (D2). In addition, two of the participants (P7 and P9, 25%) obtained better academic scores in the immediate school examinations postintervention.
- Depression, anxiety and stress scores (DASS-21 test) did not change throughout the intervention, while there were improvements in the rest of the measures. Discomfort was therefore present but the participants did not act on it (through inflexible reactions). This seems to indicate that a flexible repertoire has been promoted in the participants, and it is consistent with research findings on the impact of ACT protocols on discomfort in the short term.
- Future studies should analyze CRB1 (examples of the inflexible repertoire) and CRB2 (examples of the flexible repertoire) in session, which would allow to precisely analyze to what extent flexible repertoire is being developed throughout the training.
- Future studies should expand the sample and have control groups (i.e. traditional study techniques), which would improve the methodological richness.

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