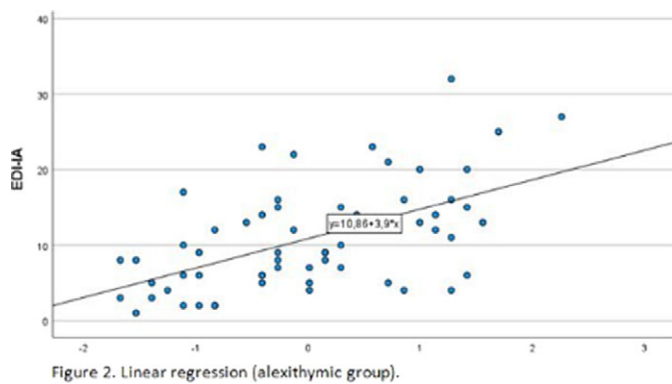


Image 2:



Conclusions: In patients with NES, alexithymia significantly predicts poor interoceptive awareness, thus explaining excessive nocturnal food intake.

Disclosure of Interest: None Declared

EPP0608

Mirror exposure therapies: Effect of the distance to the mirror on the attentional pattern in a Virtual Reality immersive environment

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Introduction: Mirror exposure therapies (MET) have been proposed to reduce symptomatology in patients with Anorexia Nervosa. However, most MET protocols or related studies do not specify the patients' distance to the mirror, or when they do so, such a distance may differ significantly (from 0,5 to 3 meters). Such modifications of mirror positioning could imply variations in patients' fixation patterns on different body parts (i.e., attentional bias between weight-related and non-weight related body parts), since previous studies shown that dissociated neural systems (either in left or right cerebral hemispheres) are involved in the attentional patterns and scanning strategies depending on the distance (i.e., in near and far space). Furthermore, as the body-related attentional bias (AB) has been shown to be a part of the maintenance mechanism of AN symptomatology, any modification of attentional patterns due to mirror's distance variations may influence the efficacy of MET.

Objectives: This study aims to use Virtual Reality (VR) and Eye-Tracking (ET) technologies to precisely analyse the effect of the distance to the mirror on the attentional patterns.

Methods: 137 female college students were immersed in a VR environment in which they could look in the mirror at their respective avatars created from the measurements and photos of their real bodies. The mirror was positioned at 3.30m in front of the participants in "group 1" ($n_1 = 54$), and at 1.54m in front of the participants in "group 2" ($n_2 = 83$). Eye-Tracking feature and OGAMA software (Freie Universität, Berlin, Germany) were used to record and process the visual attentional pattern of each participant, during a 30-second free viewing task at her avatar. Complete Fixation Time (CFT) was assessed as the fixation time difference between weight- and non-weight- related body parts, defined from the weight scale of the PASTAS questionnaire. Independent Sample t-Test was conducted to analyse CFT mean difference between both groups.

Results: Independent Samples t-Test shows statistically significant CFT mean difference ($F(1, 135) = 1.571, p < 0.001, 95\% \text{ IC } [1717; 5581]$) between both groups. While fixation pattern of the group positioned further to the mirror (group 1) was more focused on weight-related body parts (CFT mean = 2282ms, SD = 809), the fixation pattern of the group positioned closer to the mirror (group 2) was more focused on non-weight-related body parts (CFT mean = -1367ms, SD = 587).

Conclusions: This study shows new opportunities to use VR and ET technologies to precisely analyse the variations of fixation patterns as a function of mirror position in MET. Such information may contribute to adapt and develop new MET's protocols for AN patients, optimizing the distance to the mirror. It also underscores the importance of specifying the distance to the mirror in MET-related studies to improve replicability.

Disclosure of Interest: None Declared

EPP0609

Serotonin, insulin, leptin and glycolipid metabolic factor's relationship in obesity

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Introduction: Obesity, defined by an excessive body fat accumulation, is a non-communicable condition attaining epidemic proportions in economically developed countries.

Objectives: To provide evidence to the link between serotonin (5-HT), energy metabolism and the human obese phenotype, the present study investigated the binding and function of the platelet 5-HT transporter (SERT), in relation to circulating insulin, leptin, glycolipid metabolic parameters and body-mass indices (BMIs, Kg m^{-2}).

Methods: The study included an observational clinical cohort of 74 drug-free subjects (51W; 23M), recruited on the basis of divergent BMIs (16.5-54.8 Kg m^{-2}). All subjects were tested for their blood glycolipid profile together platelet [³H]-paroxetine ([³H]-Par) binding and [³H]-5-HT reuptake measurements from April 1st to June 30th 2019.

Results: The [³H]-Par B_{max} (fmol/mg proteins) was progressively reduced with increasing BMIs ($p < .001$), without changes in affinity. Moreover, B_{max} was negatively correlated with BMI, waist/hip circumferences, triglycerides, glucose, insulin and leptin, while positively with HDL cholesterol ($p < .01$). The reduction of 5-HT