

A neuropsychological examination of frontal lobe function in eating disorders

Results:

A total of 225 participants were recruited into this project.

Women with current AN demonstrated poor decision making on the IGT compared to both healthy controls and recovered AN participants ($p=0.05$).

AN patients, but not those who were recovered from AN, showed a significantly diminished Anticipatory Skin Conductance Response (ASCR) before making high-risk choices in comparison with female controls ($p=0.01$).

BN patients did not show any significant differences in IGT performance or skin conductance response compared to the other groups.

In the whole group of participants, IGT performance was not correlated to current levels of depression ($p=0.6$) or anxiety ($p=0.7$). However, IGT performance showed significant moderate correlations with ASCR ($p=0.01$).

Data analysis (e.g. males, BN, genotype and IGT performance) and is still in progress and more articles are being planned or in preparation.

AN is relatively rare condition in men. We have collected data and planning to increase recruitment of the participants to increase the power of this study in progress.

Published work:

Liao T, Uher R, Lawrence N, Treasure J, Schmidt U, Campbell I, Tchanturia K. (2009) An examination of decision-making in bulimia nervosa. *Journal of Clinical and Experimental Neuropsychology*. 31(4):455-461

Davies H, Liao T, Campbell I, Tchanturia K (2009) Multidimensional self reports as a measure of characteristics in people with eating disorders. *Weight and Eating Disorders*. (14) 84-91

Southgate L, Tchanturia K, Collier D, Treasure J. (2008) The development of the childhood retrospective perfectionism questionnaire (CHIRP) in an eating disorder sample. *European Eating Disorders Review*. 16(6):451-62

Whitney J. Easter, A. Tchanturia K (2008) The patients experiences in cognitive exercise intervention for anorexia nervosa: Qualitative findings. *International Journal of Eating Disorders* 41(6):542-50

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Southgate L, Tchanturia K, Treasure J. (2008) Information processing bias in anorexia nervosa. *Psychiatry Research*.15; 160 (2):221-7

Southgate L, Tchanturia K, Treasure J. (2008) Neuropsychological studies in Eating Disorders: A review *in* Progress in Eating Disorders. Ed. Swain Pamela I. *Nova Science Publishers*.

Davies H, Tchanturia K. (2005) Cognitive Remediation Therapy as an intervention for acute Anorexia Nervosa: A Case Report. *European Review of Eating Disorders*. 13, 311-316

Southgate L, Tchanturia K, Treasure J. (2005) Building a model of the aetiology of eating disorders by translating experimental neuroscience into clinical practice. *Journal of Mental Health* 14 (6) 553-566

Area(s) of interest:

Executive functions, Neuropsychology, Eating Disorders, Cognitive training

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