

INTRODUCTION

- ❖ The classification of eating disorders (EDs) has been a matter of considerable debate.
- ❖ Most ED classification studies have been on ED symptoms.
- ❖ ED subtypes with bulimic symptoms may be considered impulsive: e.g. absence of planning, uncontrolled eating & binge eating/purging behaviours.
- ❖ EDs are also commonly associated with impulsive behaviours such as suicidal & self-harming behaviours, substance use, behavioural addictions (e.g. pathological gambling) & aggression.
- ❖ No studies have attempted to assess whether ED patients can be naturally grouped based on impulsive behaviours.

OBJECTIVES

To assess:

- 1.) The natural grouping of a large sample of ED patients based on impulsive behaviours.
- 2.) Whether the derived clusters differed a.) amongst each other and b.) to a healthy control group (HC) on a range of clinical measures
- 3.) The concordance of the derived clusters with DSM-5 ED diagnoses

METHODOLOGY

Sample



- ❖ ED patients = 2,972
- ❖ Anorexia-Restrictive (AN-R)=437; AN-Binge Purging (AN-BP) =307; Bulimia Nervosa (BN) = 1350; Binge Eating Disorder (BED) = 358; OSFED-Purging Type = 240; Atypical-AN = 162; UFED=118
- ❖ Healthy Controls (HCs) = 1,041

Indicators

- Suicidal behaviour
- Substances
- Behavioural addictions
- Self-Harming Behaviours
- Aggressions

Validators

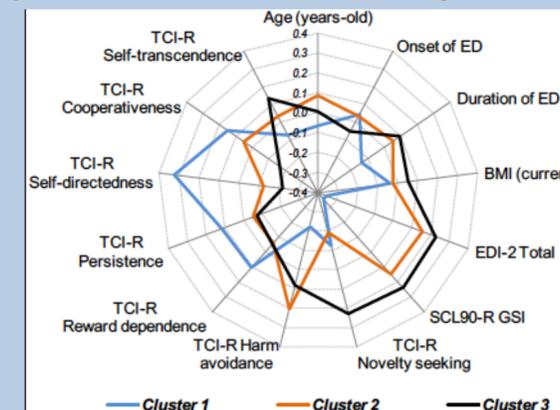
- EDI-2: ED symptomatology
- SCL-90-R: General Psychopathology
- TCI-R: Personality

RESULTS

Objective 1: Cluster Analyses

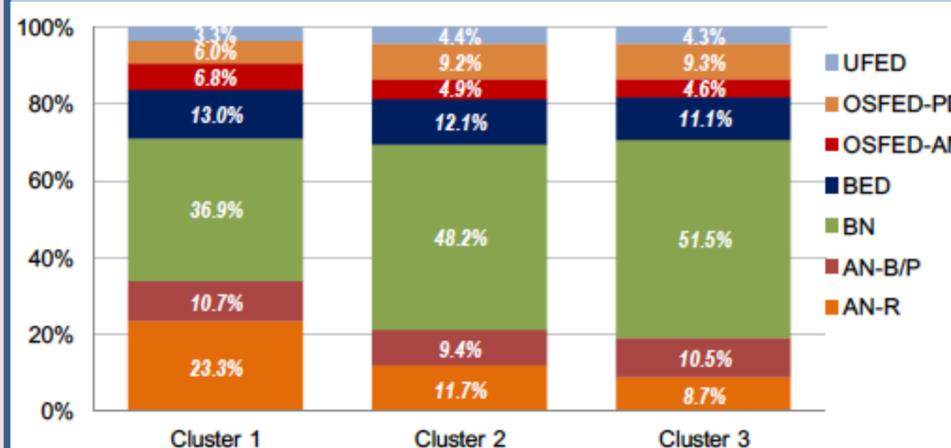
		Cl1 n=1,077	Cl2 n=709	Cl3 n=1,186
Suicidal behaviour	No	100%	0%	39.2%
	Yes	0%	100%	60.8%
Substances	No	100%	100%	48.0%
	Yes	0%	0%	52.0%
Behavioural addictions	No	100%	100%	57.5%
	Yes	0%	0%	42.5%
Self-Harming Behaviours	No	100%	60.3%	51.9%
	Yes	0%	39.7%	48.1%
Aggressions	No	100%	100%	58.5%
	Yes	0%	0%	41.5%

Objective 2: Validation Analyses



- ❖ **Cluster 1 "Adaptive"**
- ❖ **Cluster 2 "Negative mood state"**
- ❖ **Cluster 3 "Severe dysfunctional"**

Objective 3: DSM-5 Validation Analyses



- ❖ Cluster 1 & 2 obtained statistically differences for almost all measures
- ❖ Fewer differences were found between Clusters 2 & 3

- ❖ Cluster 1 ↑ AN-R patients (23.3%) compared to the other two clusters
- ❖ Cluster 3 comprised ↑ BN patients (51.5%, nearly followed by Cluster 2, which included 48.2% of BN individuals).

CONCLUSIONS

- ❖ ED patients can be meaningfully grouped based on impulsive behaviours.
- ❖ **Cluster 1 "Adaptive"**: Absence of impulsive behaviours.
- ❖ **Cluster 2 "Negative mood state"**: Mainly impulsive behaviours related to negative mood states (100% of patients reported suicidal behaviours and 40% the presence of Self-Harming behaviours).
- ❖ **Cluster 3 "Severe dysfunctional"**: Individuals with multiple types of impulsive behaviours.
- ❖ Clusters 2 & 3 (with impulsive behaviours) differed from Cluster 1 (without impulsive behaviours).
- ❖ The different ED subtypes were all represented amongst the 3 clusters.

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