Identifying transdiagnostic socio-cognitive profiles across 4 clinical populations

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Consistent

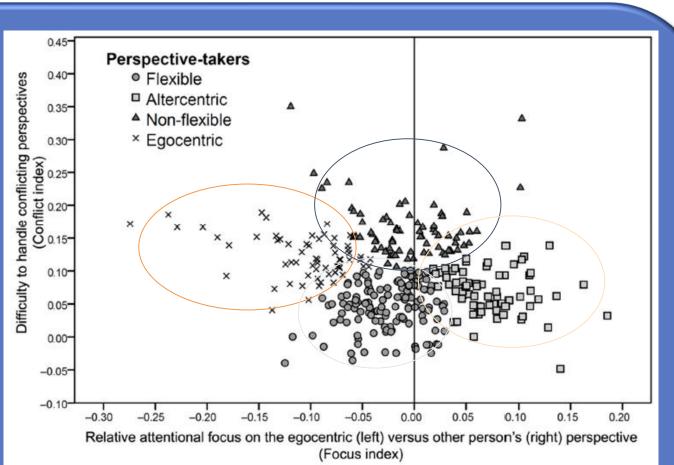
Inconsistent

Do **YOU** see 2 discs?

CONGRUENCY

Introduction

- Distinct profiles of *perspective-takers* found in healthy participants^{1,2}.
- Socio-cognitive impairments and interpersonal difficulties are frequently observed in various mental disorders⁴⁻⁵.
- o But inconsistent findings: possibly due to overreliance on single-score and self-report measures, and unaccounted heterogeneity within populations sharing the same diagnosis \implies Multidimensional and transdiagnostic assessment of social cognition^{1,6}.
 - We examined socio-cognitive performance across two dimensions⁶ posited to underpin mentalizing skills across all populations
 - Self-Other Priority: the tendency to focus more (or attentionally prioritize) on one perspective compared to the other.
 - Self-Other Distinction: the ability to handle conflicting perspectives and inhibit the interference.

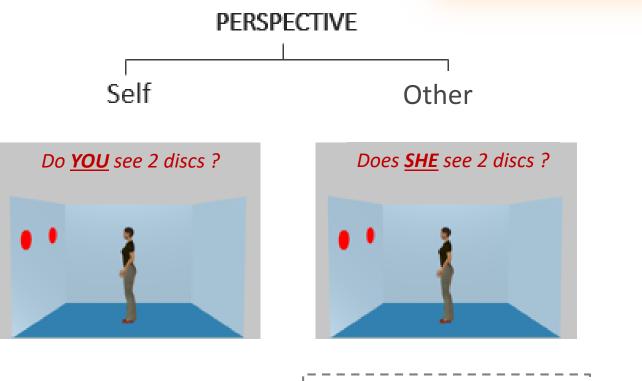


4 social-cognitive profiles in healthy adults¹

VPT1

Method





Does **SHE** see 2 discs?

Previous studies⁹⁻¹¹ had 1 condition vs. \Rightarrow 4 conditions

96 trials : Response time / accuracy rate \Longrightarrow IES (inverse efficiency score)

Self-Other priority:

(IES Other-persp. - IES Self-persp.) / (IES Other-persp. + IES Self-persp.)

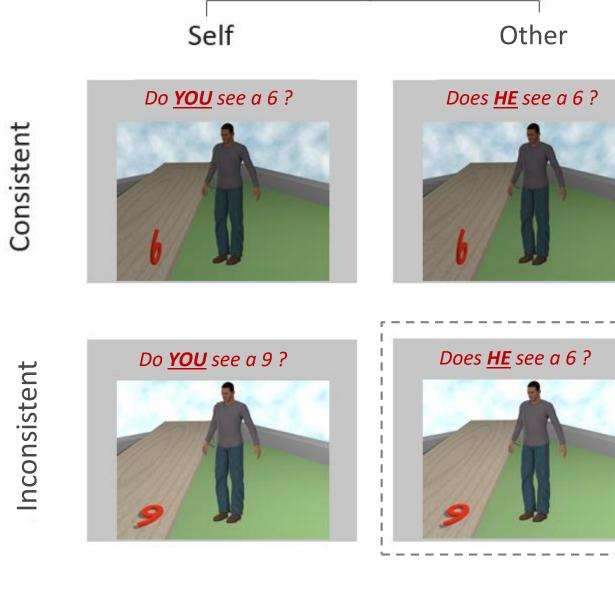
Self-Other distinction:

(IES Incongruent-persp. - IES Congruent-persp.) / (IES Incongruent-persp. + IES Congruent-persp.)

• WHETHER (s)he can see

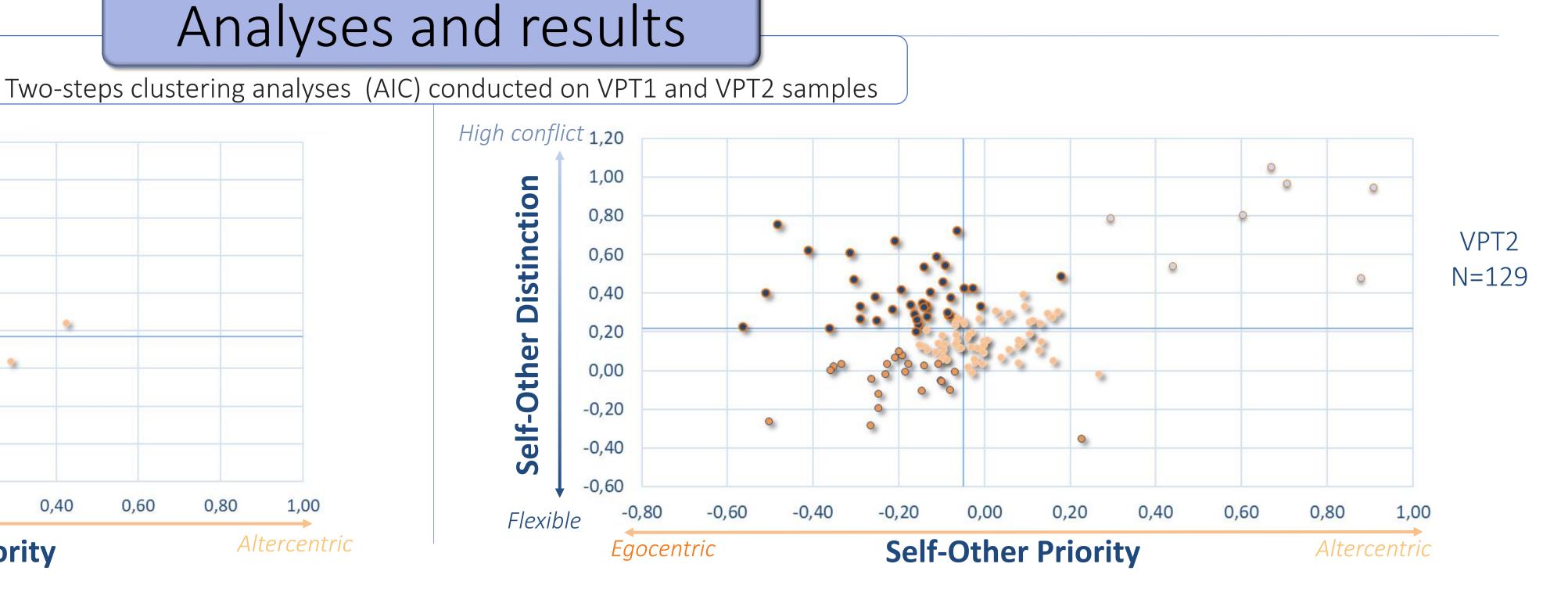
→ Evidence of construct and convergent validity with more ecological measures^{1,10-13}

• WHAT (s)he can see



PERSPECTIVE





Transdiagnostic socio-cognitive profiles:

- Flexible and altercentric Flexible and egocentric Conflicted and egocentric Alcohol use disorder (N=62) VPT1 Psychotic disorder (N=10) Restrictive anorexia (N=32) VPT2 Antisocial personality (N=22) Control (N=83) VPT1 & 2

Conflicted

3 main results:

High individual differences along both dimensions

Conflicted and altercentric

- 3 similar clusters across VPT1 and VPT2
- Heterogeneity of profiles within same-diagnosis populations

Discussion

- (1) Distinct transdiagnostic socio-cognitive profiles identified via 2-dimensional assessment: Self-Other Priority and Self-Other Distinction.
- (2) Replicates and extends previous studies conducted on healthy students in cognitive and affective $PT^{1,2}$.
- (3) Heterogeneity of profiles despite same diagnosis across 4 clinical populations (alcohol use disorder, psychotic disorder, restrictive anorexia, antisocial personality).
- (4) Three socio-cognitive profiles irrespective of PT task (flexible and altercentric, flexible and egocentric, conflicted and egocentric)
 - > common basic processes/profiles underlying individual differences.
- (5) Subtypes of 'mentalizing deficit' (instead of present/absent): Excessively egocentric, excessively altercentric, conflicted, or a combination of deficits...

Perspectives and limitations

- (1) Rehabilitation / personalized training programs adapted to specific socio-cognitive profile.
- (2) Foundation for transdiagnostic collaboration.

(4) New PT tool with 8 sub-dimensions in development.

- (3) Extension to other populations (collaborations welcomed \odot)
- (1) PRELIMINARY DATA → small sample sizes → unrepresentative samples (for now).
- (2) Unmatched controls, no covariates currently included (demographics, questionnaires, ...).
- (3) Assessment via distinct tasks for distinct populations.
- reported in previous study^{1,5}.
- (4) Cluster partitions variation (parameters and indexes), as

References