

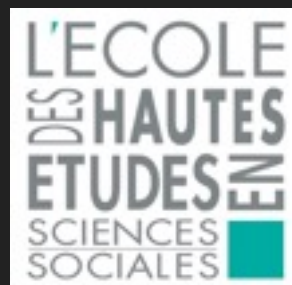
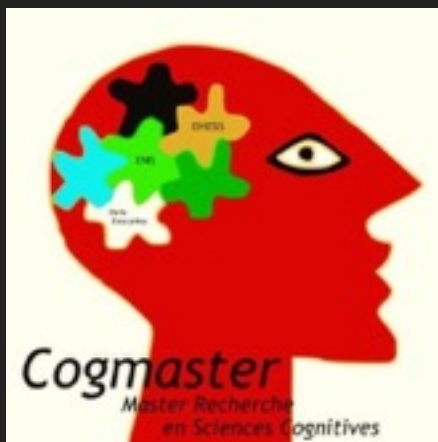
IS COGNITIVE DISSONANCE DECREASED IN SCHIZOPHRENIA ?

COULD REFORMULATION CORRECT THIS IMPAIRMENT ?

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TRAINEE IN PSYCHIATRY, PARIS, 3RD YEAR

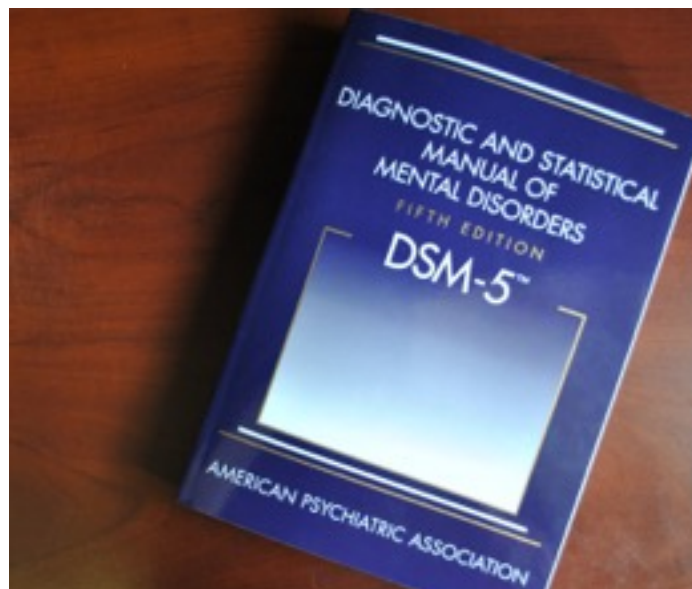
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SCHIZOPHRENIA



- ▶ Chronic psychiatric disease
 - ▶ 0,7 % of population, adolescents and young adults
- ▶ 3rd cause of handicap
 - ▶ Positive signs
 - ▶ Negative signs
- ▶ Effective treatments (antipsychotics)
 - ▶ Lack of motivation and low observance rate

AMBIVALENCE : DIFFICULTY TO RESOLVE CONFLICT ?

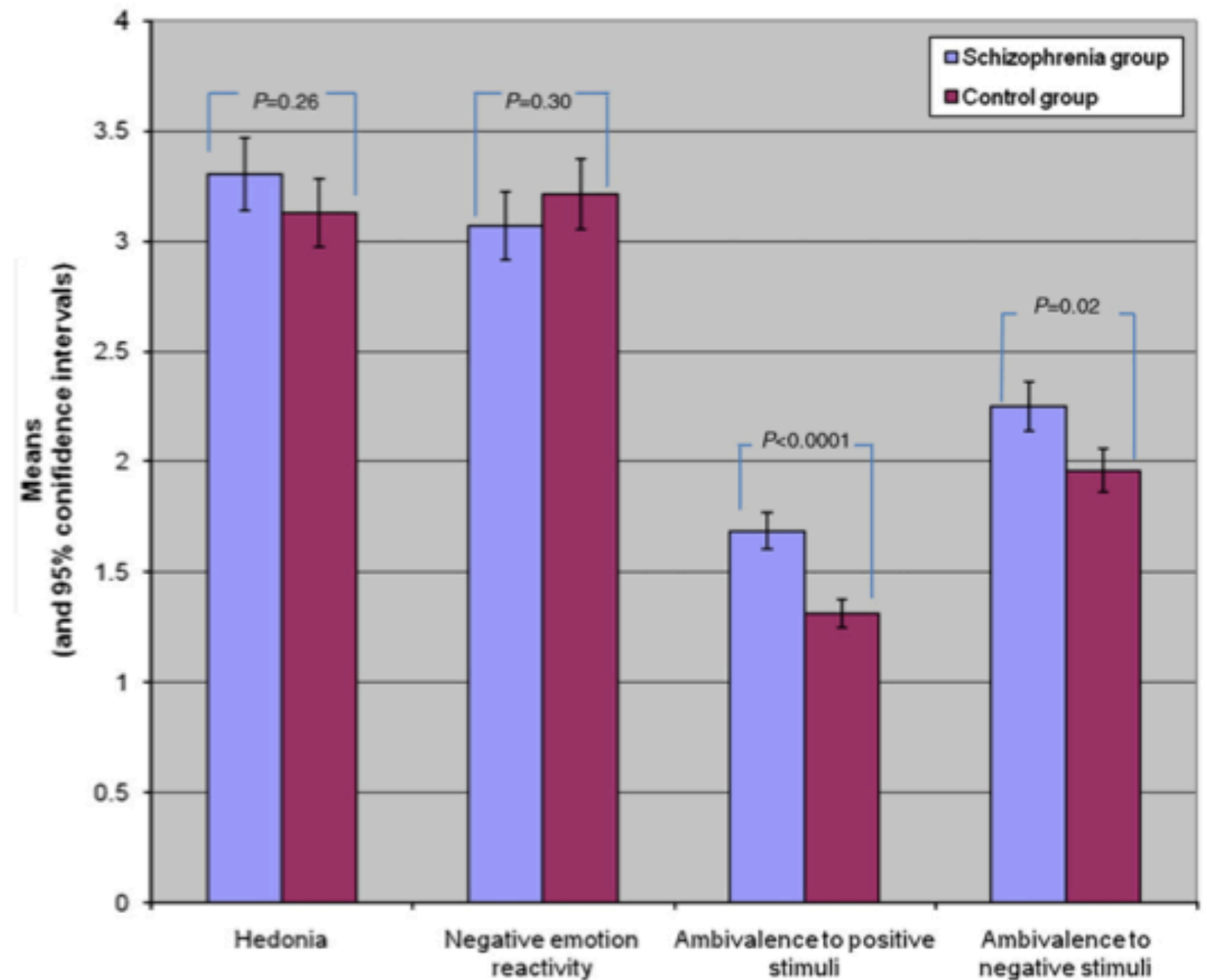


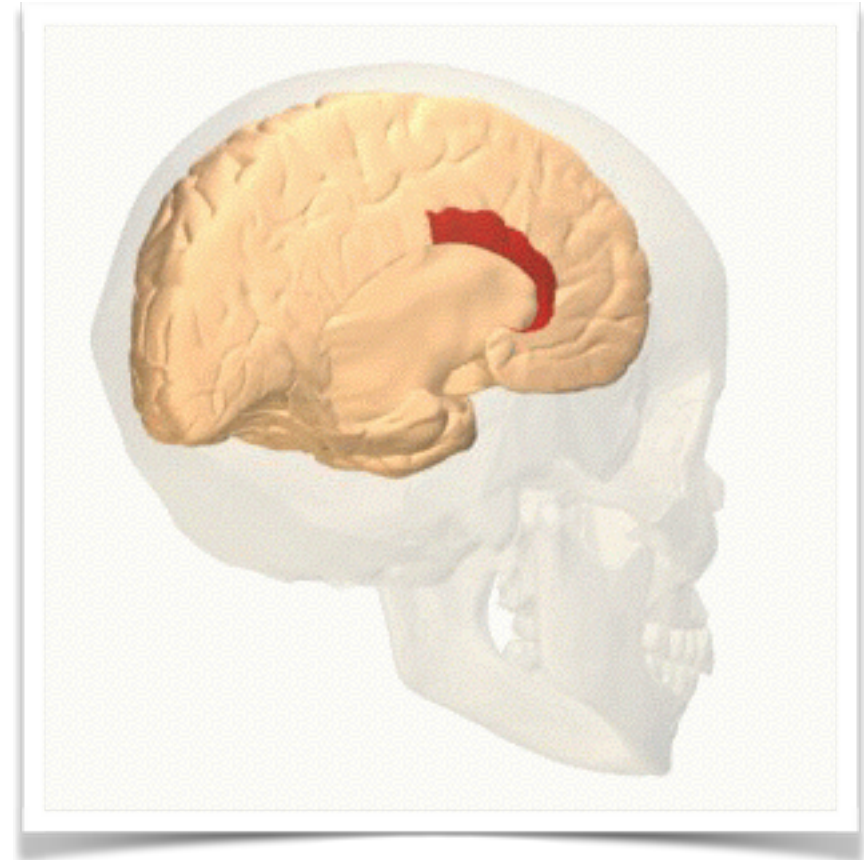
Fig. 1. Hedonia, negative emotion reactivity and ambivalence. Comparison between groups.

DEVIANT SALIENCY



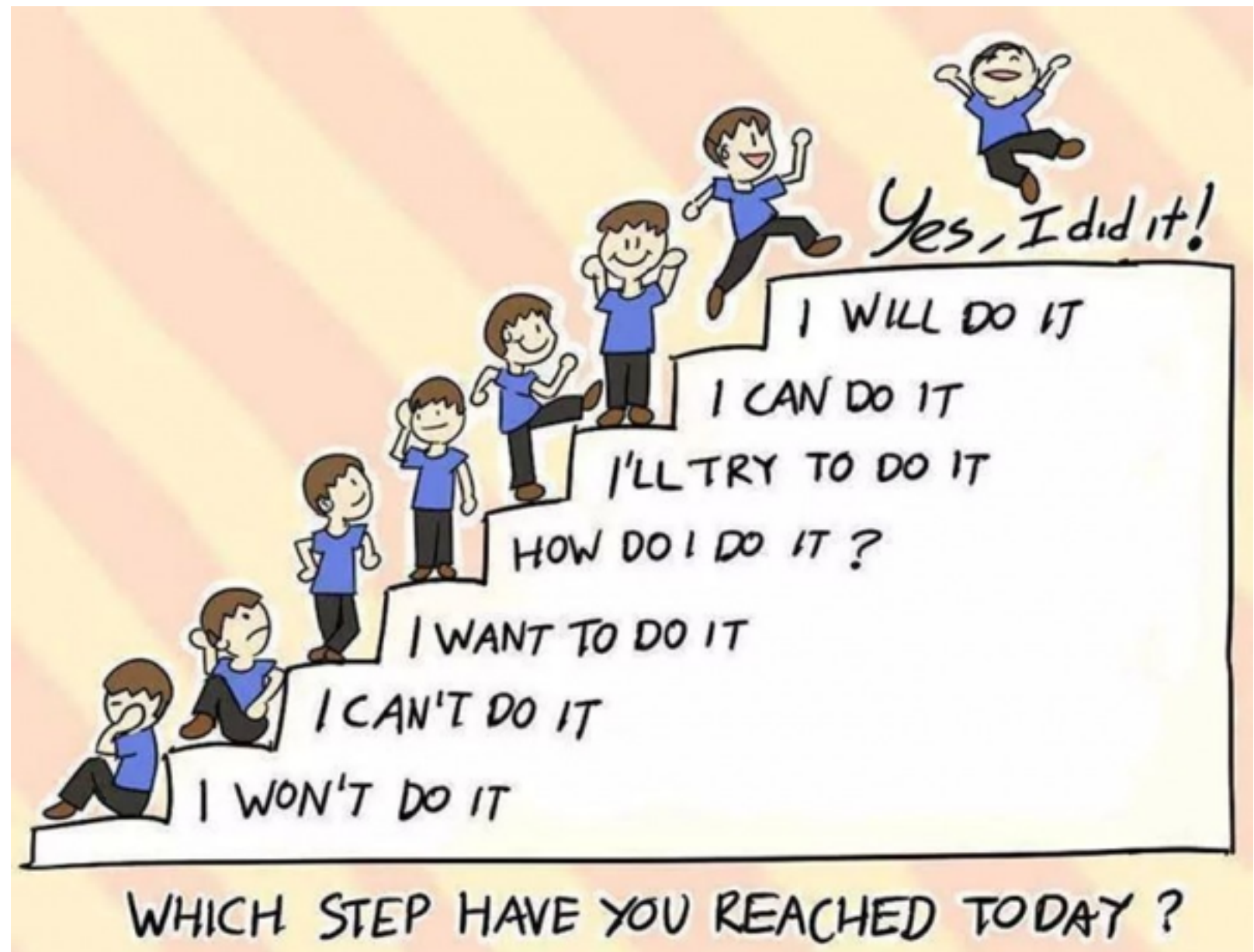
ANTERIOR CINGULATE CORTEX

- ACC involved in detecting modification of environment and update its prediction
- With insula it is implicated in cognitive dissonance (van Veen et al. 2009)
- Perturbation of ACC and conflict monitoring in schizophrenia (Kerns et al., 2005 ; Park, 2014)



MOTIVATIONAL INTERVIEWING

- Open questions
- Reinforcement (valorisation)
- Reflective listening (repetitions)
- Avoid unsolicited advises



COGNITIVE DISSONANCE AND MOTIVATIONAL INTERVIEWING SHARE COMMON CONCLUSIONS

- Ambivalence is natural and drives a change
- Freedom and confidence are necessary to change
- Arguing for a change is useless (reactance)
- Foot in the door and engagement is necessary

Cognitive dissonance : 15 min boring task in a situation of freedom or not

	Controls	Patients SCZ
Cognitive dissonance	(n=30)	(n=30)
No cognitive dissonance	(n=30)	(n=30)

SECONDARY HYPOTHESIS

- ▶ Link with conflict monitoring:
 - ▶ Stroop and Simon tasks? more homogenous sub-type of patients?
- ▶ Reformulation used in motivational interviewing?
 - ▶ Modulation of saliency?
- ▶ Physiological associations:
 - ▶ Disruption in ACC?
 - ▶ Electrodermal activity?

- ▶ Schizophrenia is a frequent and not well understood mental illness
- ▶ Study of cognitive dissonance could be relevant in a theoretical and practical point of view
- ▶ Impairment of cognitive dissonance could enlighten different steps involved in this mechanism

DEVIANT TRUST AND JUMP TO CONCLUSION

Is this ?

- A smile
- A Boat
- A sled
- An elephant head



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