Impact of an anxious social situation on emotional facial expressions (EFE) recognition in children

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INTRODUCTION

The present study aims to explore the relations between EFE recognition performance and self-esteem in children placed in an anxious social

- In an anxious social situation, social anxious children will have a lower capacity to decode accurately EFE than non social-anxious-children.

METHODS

Participants

venty healthy children (8 – 12 years) were recruited for this study.

Social Anxious situation

al anxiety in submitting children to a temporal constraint task. Children were asked to count aloud backwards, beginning at 200 in increments of 13. Every mistake was corrected systematically

Before and after this task, children assessed their emotional feeling state on the Differential Emotions Scale (DES; McHugo, Smith, & Lanzetta, 1982). This questionnaire is made up 10 emotions, including anxiety. Children had to evaluate on a 5-points likert scale the intensity of their feeling about the 10 emotions

Measures

Self-esteem

Before the temporal constraint task, children completed the Self-Perception Profile for Children (Harter, 1985). This 30-items guestionnaire evaluates self-esteem in children between 8 and 13 years. This questionnaire is multidimensional and evaluates self-esteem in 6 domains (school, social, physical, behaviour, and values)

EFE decoding accuracy

Children were assessed on an EFE decoding test consisting of 16 photographs of males and females depicting EFE of happiness, anger, disgust, and sadness (from the material of Hess and Blairy, 1995). Children had to evaluate on a 7-point likert scale the intensity of sadness, disgust, fear, joy, anger, surprise, contempt, and embarrassment expressed by each faces. An answer was considered as accurate if the child gave the higher evaluation of intensity to the right emotion.

RESULTS

•Does	the	induction	of	emotions	(DES)	induced
anxiety	/?					

The children feel globally less amused, less happy and more anxious after than before the task

•Does an increased level of anxiety after the anxious

situation is correlated to deficits in EFE recognition?

•Does low self-esteem is correlated to deficits in EFE

recognition?

A high level of self-esteem is related to high capacity to decode EFE, and more particularly, EFE of joy.

•Is low-self-esteem related to interpretative bias?

The lower the child's level of self-esteem was, the more he/she perceived negative emotions (fear, anger, disgust, and shame) in EFE of anger, r(70) = -.33, p < .01

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NO

YES

YES

	Lillotiono	Doloid	111001
i	Attentive	3.98 (0.92)	3.94 (1.21)
	Amused*	3.98 (1.21)	3.02 (1.27)
	Sad	1.77 (1.27)	1.85 (1.10)
	Angry	1.75 (1.36)	1.51 (0.98)
	Afraid	1.75 (1.24)	2.04 (1.22)
	Anxious*	2.52 (1.51)	3.21 (1.39)
	Disgusted	1.40 (1.00)	1.69 (1.08)
	Disdainful	1.91 (1.26)	1.81 (1.24)
	Surprised	2.7 (1.52)	2.78 (1.41)

steem

.19

.33*

Decoding accuracy	Increased level of anxiety	Self-e
Anger	16	.11
Disgust	.03	.11
Joy	11	.41*

-.04

-.11

Total *p<.01

Sadness

CONCLUSIONS

Social anxiety doesn't seem to interfere with EFE recognition performance. However, low level of self-esteem in children appears to be associated with deficits and interpretative bias in EFE recognition in an anxious social situation.

→A low self-esteem in children could be associated to difficulties to interact with others, in particular in social situation of performance, via EFE decoding problems.