SOCIAL AND EMOTIONAL PROCESSING

CNTRICS

Cognitive Neuroscience Treatment Research to Improve Cognition in Schizophrenia

Social Cognitive Processing: original constructs

- Facial affect recognition
- Emotion regulation
- Effects of emotion on decision making and memory
- Theory of mind

Four Constructs

1. Reward Learning

2. Affective Recognition and Evaluation

3. Self-Other Overlap

4. Control of Emotion

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Construct: Affective Recognition and Evaluation

Recommended for measurement development

Strengths

Linked to neural systems

Readily measured in humans

Use in imaging

Associated with functional outcomes

Impaired in schizophrenia (especially faces)

Limitations

Animal models limited

Cognitive mechanisms unclear

Only limited evidence about link to neuropsychopharm

Construct: Reward Learning

More clinical research needed

Strengths

Linked to specific neural circuit

Linked to psychopharm (effects of medication?)

Animal models

Understanding of cognitive mechanisms

Readily measured in humans

Use in imaging

Limitations

Unknown if associated with functional outcome

Largely unknown whether impaired in schizophrenia

Construct: Self-other overlap

More basic cognitive neuroscience and clinical research needed

Strengths	Limitations
Readily measured in humans	Cognitive mechanisms unclear
Use in imaging	No clear link to neuropsychopharm
Linkage to neural systems (questions about interpretability)	Unknown if impaired in schizophrenia
Some animals models	Unknown if associated with functional outcomes

Construct: Control of Emotion
More basic cognitive neuroscience and clinical research needed

Strengths	Limitations
Readily measured in humans	Cognitive mechanisms unclear
Use in imaging	Lack of animal models
Linked to neural systems	Unknown if impaired in schizophrenia
Some evidence of link to neuropsychopharm	Unknown if associated with functional outcomes

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