

Self-Defining Memories and Identity in Schizophrenia: Preliminary Results.

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Introduction

- Identity is a told expression of self that results from a bidirectional relationship between self and memory: the self constrains the encoding and the retrieving of memories and the memory informs the self about "what it is" (Conway, 2005; Rathbone et a., 2008).
- <u>Self-images</u> (a part of the self): are abstracted and decontextualized information about identity, ongoing connected with autobiographical memories (AMs), such as roles, personality traits, values, characteristics about oneself, motivations, ...
- Self-defining memories (SDMs) (another part of the self): SDMs are representative key elements in defining what we are and are linked with an individual's essential goals (Conway et al., 2004) Rathbone et collaborators (2008):
- - Each self-limage is supported by a distribution of distinct internoles that are clustered around the appearance times of diese self-limages. Mostly, the self-limages seems to emerge during the "reminiscence bump period", which is a period corresponding to late adolescence and early adulthood. This period is critical for the formation and maintenance of stable identity.

 Possibly, many memories recalled from this period correspond to SDMs and have a powerful effect in binding the identity to a specific reality (Singer & Salovey, 1993).

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- Raffard et al. [2009, 2010] showed that SDMs of patients with schizophrenia (PSch) contain less meaning-making than SDMs of healthy control subjects (HCS).
- na-Greene et collaborators (2012) studied self-images and memories related in PSch compared to HCS. They showed that both groups

However, in comparison to HCS, PSch:

- recalled AMs less specifics and less AMs consciously remembered; had a thematic organization between AMs and their related self-images weakness.

Objective

Hypotheses

- We hope replicate the results come from Bennouna-Greene et al.'s
- Furthermore, we supposed that meaningretrieved memories will be more absent in PSch
- Finally, we hypothesized that PSch have a traits self-knowledge more instable than HCS,

Results

19 PSch and 19 HCS matched have participated to this study.

Materiel and procedure

Method

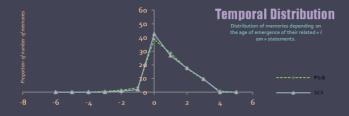
Twenty Statements Task (TST; Kuhn & McPartland, 1954; Rhee et al., 1995): participants were asked to write down 10 enduring "I am..." statements (e.g. roles, traits, characteristics about oneself, functions, ...).

Afterwards, they selected the 3 of these statements as the "most personally significant to their

• For each of these 3 statements, participants recalled three memories "where they had impression that this statement was significantly present in their life" (Bennouna-Greene et al., 2012). Furthermore, memories had to (1) be important for themselves, (2) be specific, (3) take place at least a year ago. The memories were narrated out loud.

Then, they gave the dates "when they think that the memories took place" and the dates "when they felt that the 3 statements were a significant part of their identity."

- questionnaire (A version and B version). Each one contains 50 personality traits for which participants respond to question "how does this adjective describe me?" with the help on a likert scale (1 "not at all" to 5 "very well"). A comparison between both versions allows to investigate the stability of traits self-knowledge.
- - Digit Span Forwards and Backwards (Wechsler, 1997) Stroop-Color Word Test (Stroop, 1935); Verbal Fluency Task (Benton & Hamsher, 1976).
- Depression and symptomatology:
 Beck Depression Inventory II (Beck, 1996);
 PANSS (Kay, Opler, Fiszbein, 1987).



| | PSch | HCS | p |
|----------------------------------------------------------------|-------------|-------------|-----|
| Clinical measures | | | |
| | 35.95(9,96) | | |
| | | 4.89(1.97) | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| Depressive symptomatology | 12.74(8.34) | 7(10.86) | .07 |
| Neuropsychological Measures | | | |
| Digit Span Forwards | | 5.89 (1.04) | |
| Digit Span Backwards | | | |
| Verbal Fluency | | 32.89 (8.9) | |
| | | | |
| Characteristics of memories | | | |
| | | | |
| | | | |
| | | | |
| Characteristics of "Tam" statements | | | |
| | 18.12(8.48) | | |
| <u>Quality</u> : Abstract statements (vs. specific statements) | | | |
| Quality of 3 Abstract statements (vs. specific statements | | | |
| Complexity (number of subcategories) | | | |
| | | | |
| Stability of traits self-knowledge | | | |

Discussion

- Parallel to Bennouna-Greene et al. (2012), both PSch and HCS have presented a same temporal distribution of their memories around the "I am" statements that generated those ones. This result showed that PSch's self-images are supported by distinct AMS that are clustered around the emerging times of these self-images.
- Schizophrenia illness does not seem to affect the patients' "I am" statements in this sense that the complexity and the quality of their self-images were similar to those of HCS. This is certainly due to the fact that the temporal distribution is also preserved. PSch as HCS possessed memories to justify/explain their self-images. Furthermore, PSch have a trait self-knowledge stability preserved. It must not be forgotten that the traits, abstract self-knowledge, represent the cognitive structures that are most resistant to changes (Duval et al., 2009, Klein and Lax, 2010, Boulanger et al., submitted). In this study, the traits were used around 60%, in comparison with specific "I am", in both groups.