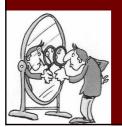
Short web-based manipulation of self-focused attention:

a comparison of Attention Training and mindfulness



JL Monestès, CNRS 8160, Amiens, France
M Villatte, Univ. Of Lille, France



Self-focused attention

- "an awareness of self-referent, internally generated information that stands in contrast to an awareness of externally generated information derived through sensory receptors" (Ingram, 1990)
- self-focused attention associated with negative affect (depression, anxiety) (Mor & Winquist, 2002)



Measuring self-focused attention

■ Self-report scales

Situational Self-Awareness Scale

- Example of items
 - Right now, I am keenly aware of everything in my environment.
 - Right now, I am conscious of my inner feelings.

Likert: 1 - strongly disagree to 7 - strongly agree

Measuring self-focused attention

- Self-report scales
- assessing implicit aspects of self-focus
 - self-focus Stroop task
 - visual word recognition latencies (IRAP?)
 - selection of a pronoun that best fits a sentence

Linguistic Implications Form

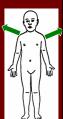
- Example of items:
 - All of (our, my, his) answers matched the ones in the back of the book.
 - At first it didn't seem to make any difference, but by later that night the noise from the party was entirely too loud to allow (her, me, us) to sleep.
 - The salesman tried to persuade (me, her, us) to buy a set of encyclopedias.

How to decrease self-focused attention?

- training attention to external stimuli
 - Attention Training Treatment (ATT- Wells, 1990)
- modifying the interaction with internal and external stimuli
 - Mindfulness

Attention Training Treatment (Wells, 1990)

- decreasing self-focused attention by training attention to external stimuli
- Auditory stimuli
 - Selective attention
 - Attention switching
 - Divided attention
- Not distraction, but the capacity to sustain attention to something else than me, my sensations, thoughts, emotions (i.e. opposite to self-focused attention)



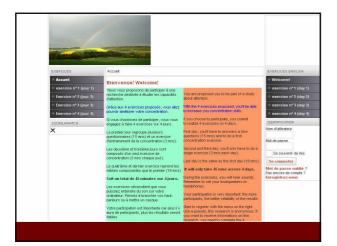
Mindfulness

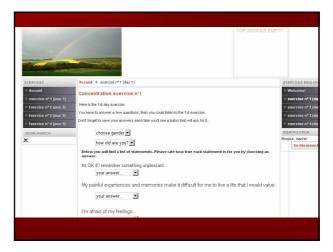
- modifying the interaction with internal stimuli (thoughts, memories, sensations, emotions) and external stimuli
- awareness, but non-judgmental

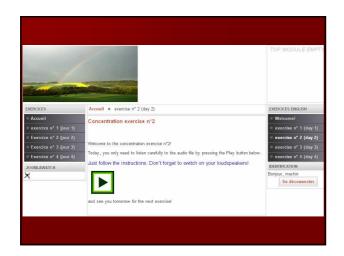


Experiment

- A web-site
- 4 exercises across 4 days (audio files to listen)
- Ouestionnaires
- Every action recorded (IP address, any link clicked, time on each page, answers to the questionnaires)

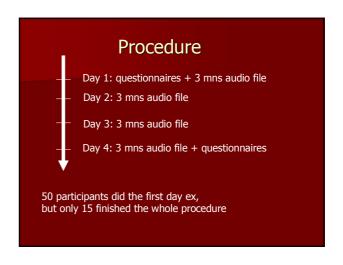


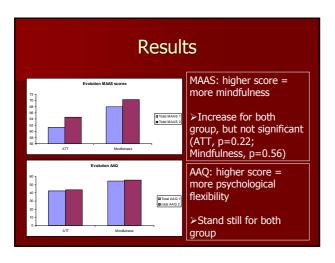


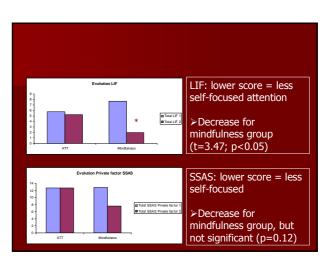


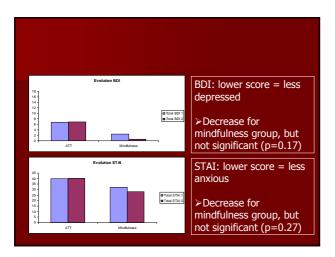


Measures Acceptance and Action Questionnaire (AAQ-II, Bond et al.) Mindfulness Attention Awareness Scale (MAAS, Brown & Ryan, 2003) Beck Depression Inventory (BDI-II, 13 items version, Beck et al., 1996) State-Trait Anxiety Inventory (STAI-YA and STAI-YB; Spielberger, 1983) Situational Self-Awareness Scale (SSAS, Govern & Marsch, 2001) Linguistic Implications Form (LIFEZ, Wegner & Giuliano, 1983)









Summary

- Mindfulness increased for both group not significantly, but tendency clearer for ATT
- Self-focused attention decreased significantly only for mindfulness group
- Differences with 4 * 3 minutes exercises (and very small sample...)

Discussion

- Question: Is being exclusively focused on external stimuli always a problem? At first sight, ATT seems to equal distraction. But:
 - Flow concept: "holistic experience that people feel when they act with total involvement" (Csikszentmihalyi, 1975)
- Question: Is being judgmental about oneself always a problem? What about problem-solving, self-regulation, self-knowledge, psychological adjustment (Takano & Tanno, 2009)?

Conclusion

- A very short manipulation can modify attention and relationship to private events
- Distribution of attention to internal and external stimuli + metacognitive functions may be composite processes:
- > No definitive method
- We need more results, particularly to evaluate if a method is more efficient than the other, depending on the context.

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Thank you for your focus....

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Conclusion

- Question:
- Focusing to internal perceptions because it hurts (i.e. survey, struggle), therefore neglecting external reinforcement sources OR
- External stimulus not reinforcing, then focusing on internals?