



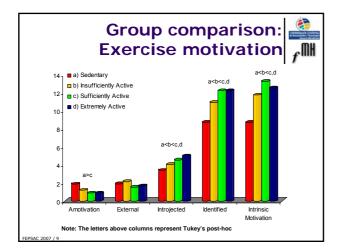
- Analyze the association between motivational constructs from Self-Determination Theory and depression, anxiety and stress
  - Hypothesis: <u>Controlling for exercise level</u>, <u>more</u> internal, self-determined forms of exercise motivation are associated with <u>lower</u> psychological distress.

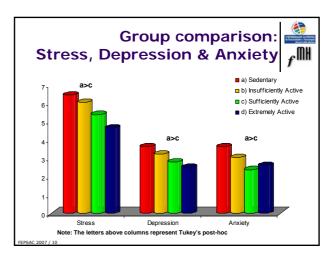
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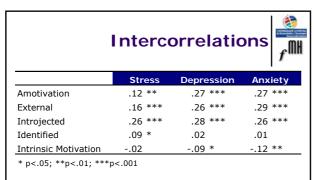


- Participants
  - Convenient sample of 715 subjects (458 women, 27.3±9.0 years)
- Measures
  - Exercise weekly frequency (assessed with one single item)
    - Sedentary (19.5%), insufficiently active (34.2.%, 1-2/w), sufficiently active (41.6%, 3-6/w) and extremely active (4.8%, >6/w).
- Depression, Anxiety and Stress Scale (DASS: Lovibond & Lovibond, 1995)
- Behavioural regulation for exercise questionnaire 2 (BREQ-2: Markland & Tobin, 2004)
- Internal consistency: .65<a<.88</li>

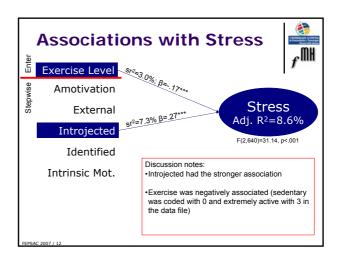
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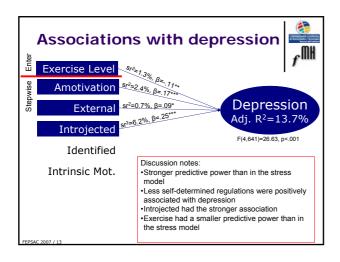


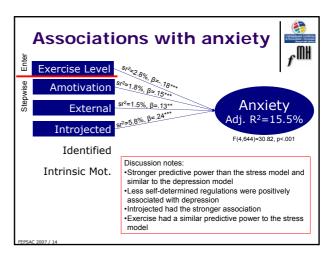




Simplex pattern, with higher values of stress, depression and anxiety associated with higher values of the more negative behavioural regulations. Conversely, stress, depression and anxiety were negatively associated with intrinsic motivation.







## Summary of results



- Exercise level is positively associated with psychological well-being and more self-determined behaviour regulations
- Less self-regulated types of motivation were associated with higher psychological distress, even when controlling for exercise level
  - Introjected regulation was particularly predictive of depression, stress and anxiety
  - Intrinsic motivation did not contribute to subjective well-being beyond exercise level

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## Promoting psychological well-being through exercise... Thus, can we say: You should do exercise in order to... feel better...

## Discussion



- Exercise does not always makes one feel better (note: limited measure of exercise)
- In introjected regulation a person is motivated by internally imposed controls and self-esteem contingencies
  - Exercise is done by guilt; thwart its psychological benefits (Edmunds et al, 2007)
  - Not being able to exercise decreases wellbeing more intensely (Berger & Motl, 2001)
  - Exercise is being socially driven (McCabe & Ricciardelli, 2003)

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- Limitations
  - Did not control for gender differences
  - Only one measure of SDT constructs
  - Psychological distress vs. well-being measures
  - Exercise was assessed by self-report
  - No mediation analysis
- Implications
  - Assure that people take on exercise that they can self-regulate in a autonomous fashion, to promote the feel-good factor

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