

Salewski, Trusch & Vollmann

How effecitve is a short CSM-based online intervention on intended flu prevention behaviour?

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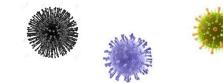
Flu



- contagious respiratory illness caused by viruses
- severe consequences (e.g., treatment costs, sick leaves, high mortality)
- no causal treatment



Flu



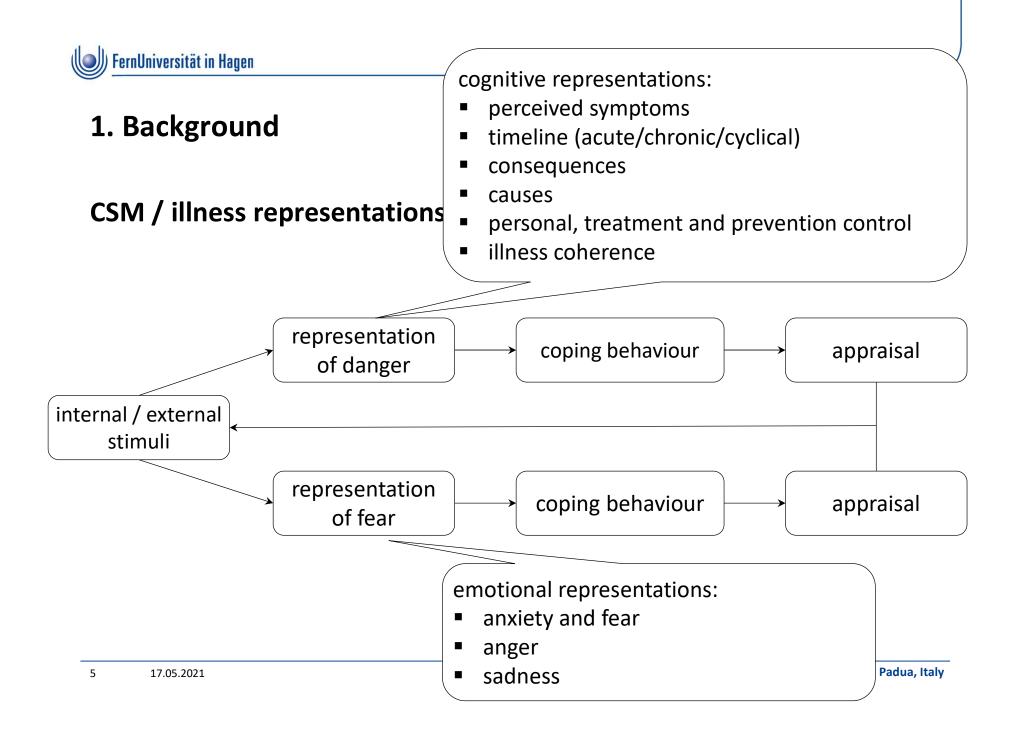
=> central importance of primary prevention:

- active behaviours, such as handwashing
- avoidant behaviours, such as no handshaking
- annual flu shots



Illness representations

- beliefs about an illness or health threats (Hagger et al., 2017)
- important for patients and healthy people (Godoy-Izquierdo et al., 2007)
- core construct of the Common Sense Model (CSM) (Leventhal et al., 2003)





Illness representations and prevention

 relations between illness representations, behavioural intentions and illness-related behaviours in persons confronted with Influenza A (Karademas et al., 2012)



Modification of illness representations

- evidence for changeability of illness representations in patients with chronic conditions (McAndrew et al., 2008):
 - decrease in perceived consequences and beliefs about a long timeline, increased control beliefs, more positive emotions, and faster return to work after intervention for patients with myocardial infarction; (Petrie et al., 2002)
 - illness representations as mediators between participation in an intervention and decrease in symptom severity in patients with Irritable Bowel Syndrome (Chilcot & Moss-Morris, 2013)



2. Aims of the study

General aim: To examine the applicability of the CSM in the context of preventive behaviours (i.e., flu preventive behaviours)

- 1. How effective is an intervention targeting at changing illness representations and preventive behaviours?
- 2. Are the positive effects of the intervention on preventive behaviours due to changes in illness representations?



3. Method: Design

randomized pre-post-control group design

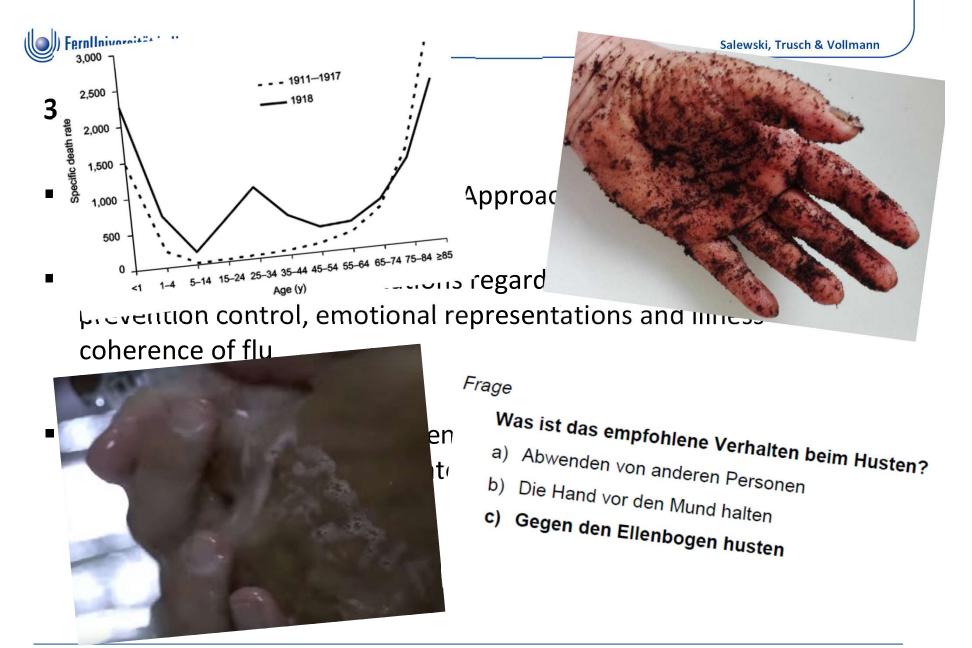
Pre-test: IG: Intervention Post-test:				
	Pre-test:	IG: Intervention	Post-test:	
IR, intention CG: Information, questionnaire IR, intention	IR, intention	CG: Information, questionnaire	IR, intention	

online study



3. Method: Intervention

- based on Intervention Mapping Approach
- targeting illness representations regarding consequences, prevention control, emotional representations and illness coherence of flu
- information provided in written form, via pictures and videos; knowledge quiz with immediate feedback



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3. Method: Sample

- N = 416 participants (not acutely infected with flu)
- 300 women (72 %), 116 men (28 %)
- mean age: 36.87 year (SD = 11.78); range: 18 72 years
- level of education:
 - low: 19
 - intermediate: 162
 - high: 235
- randomization: 213 in IG, 197 in CG



3. Method: Assessment I

Illness representations: Illness Perception Questionnaire-RH (Moss-Moris et al, 2009; Figueras & Alves, 2007)

- consequences: 4 items, "Flu has a strong impact on the life of the person fallen ill with flu"
- prevention control: 6 items, "You can do something against falling ill with flu"
- emotional representations: 5 items, "Flu scares me"
- coherence: 5 Items, "I have a clear understanding of flu"

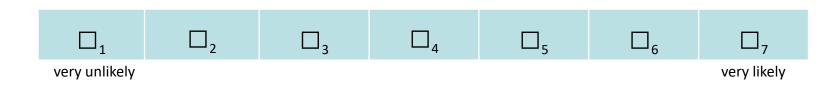




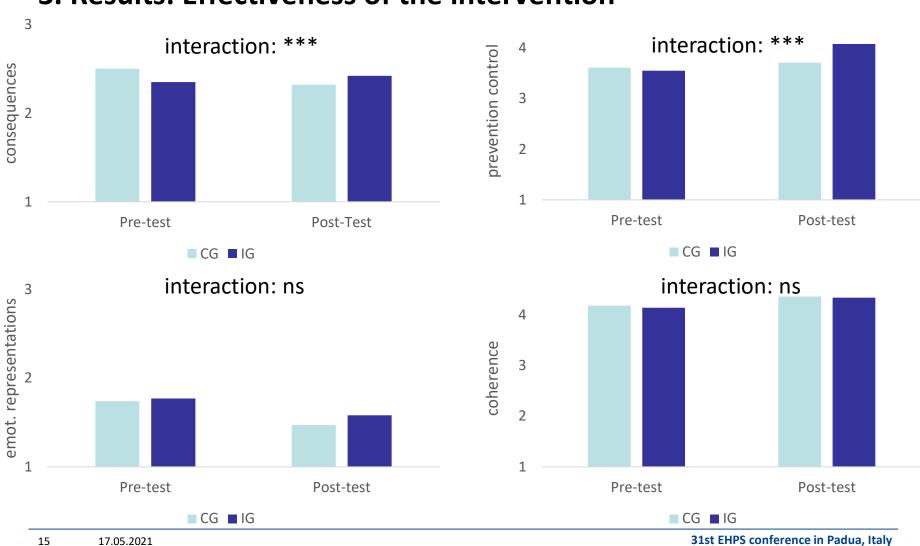
3. Method: Assessment II

Intention to perform flu preventive behaviours:

- active prevention: 6 items, "To prevent flu, I will wash my hands regularly"
- avoidant prevention: 4 items, "In times of high rates of flu infections, I will avoid shaking hands in order to prevent an infection"
- Flu shot: 4 Items, "In order to prevent flu, I will take a flu shot next autumn"



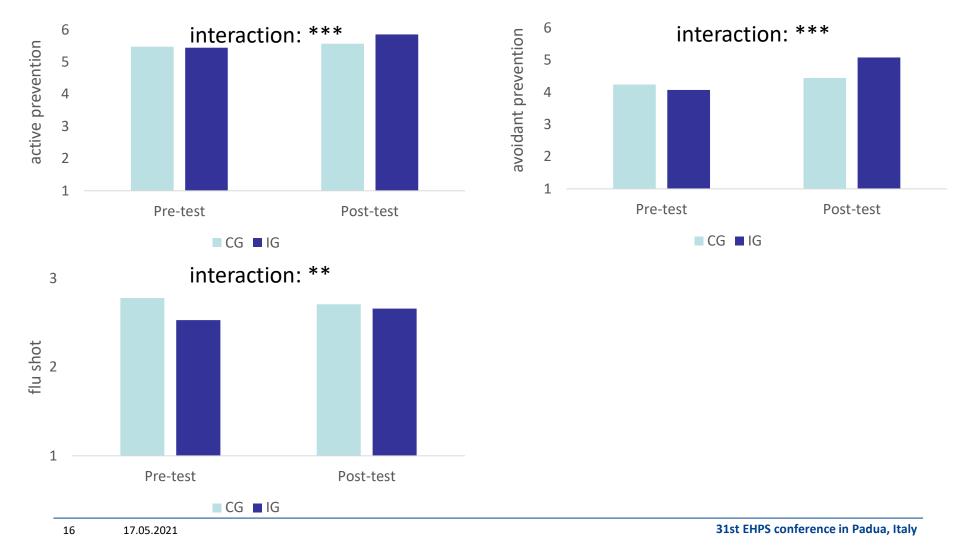




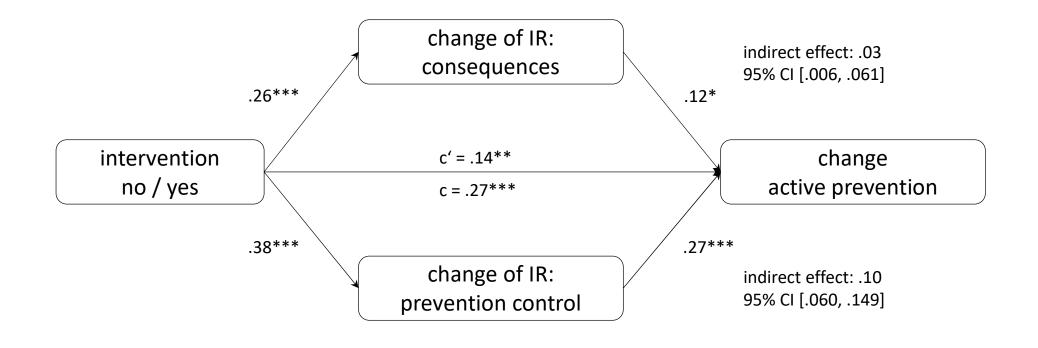
3. Results: Effectiveness of the intervention



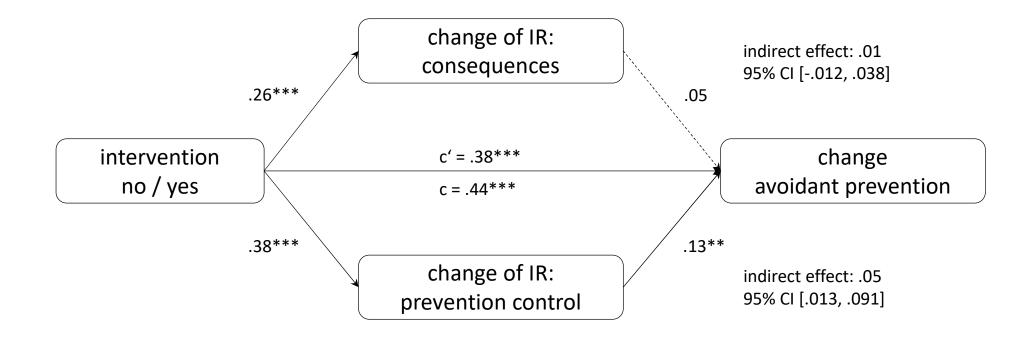
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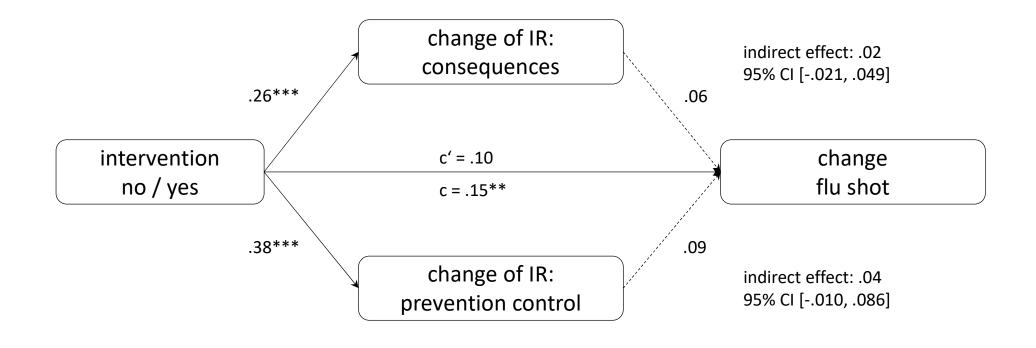
3. Results: Illness representations as mediators



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3. Results: Illness representations as mediators





4. Summary

- increase of intentions to perform three forms of flu prevention behaviour after intervention targeting illness representations of flu
- also, increase in perceived flu consequences as well as in beliefs about prevention control
- illness representations mediate the relationship between the intervention and behavioural intentions to some degree



5. Discussion

- indicator for the effectiveness of short media-based intervention to change both illness representations and intentions to perform preventive behaviours (Petrie et al, 2011); however, intervention results in more negative beliefs about consequences
 - Iong-term effects?
 - effectiveness to change behaviour?
 - effects on other outcome measures, e.g., well-being?



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Thank you for your attention!

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