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Street, Tamara D. & Lacey, Sarah J. (2014) Empowering, progressing and sustaining employee health behaviours via SMS: An applied study design. In *28th International Congress of Applied Psychology*, 2014-07-08 - 2014-07-13. (Unpublished)

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Empowering, Progressing and Sustaining Employee Health Behaviours via SMS: An Applied Study Design



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OUTLINE

- Background
- The client brief
- Theoretical foundation
- Applying theory to inform the study design
- Methodology
- Phase Two: The trial and evaluation
- Summary and questions



BACKGROUND

Workplaces can provide highly effective environments for health promotion.

The challenge for psychologists is to develop programs that encourage participation by the greatest number of workers including those least likely to participate.

This presentation will outline the development of a semi-tailored SMS nutrition and exercise behaviour change intervention for shift workers at a rural mining company.



THE STUDY



Mining company in rural Australia

Employees typically work a rotating 12 hour shift roster

The Brief:

- Design a workplace health program
- Ensure the program is **accessible** to all employees
- Ensure the program is based on scientific theory



THEORY: THE FOUNDATION

Theory provides with the primary tools to create behaviour change interventions.

Use of theory in behaviour change interventions is associated with larger effect sizes.

Practical workplace health programs have seldom referred to theory in their design.



EMPOWERING EMPLOYEES

To achieve behaviour change employees must take control of the decisions affecting their own health.

Empowerment is the process through which individuals gain greater control over decisions and actions affecting their health.

It is a 'bottom-up process' whereby changes are derived in response to an individual's self determination to change.

Empowerment is achieved through addressing personal motivations for change.

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MEETING THE NEEDS OF MANY

A challenge in intervention design is designing a program that meets the needs of all employees.

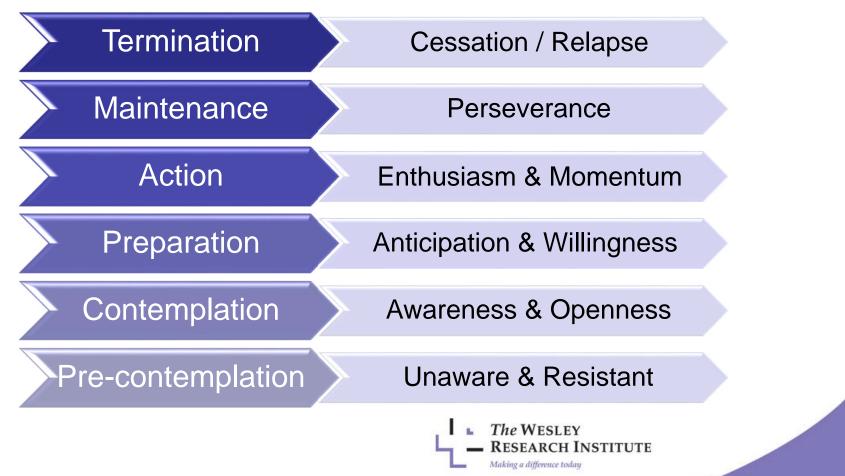
Few healthy population studies have incorporated both theory and personalization in the intervention design.

The Stages of Change model is one commonly employed theory.



PROGRESSING EMPLOYEES

The Stages of Change Model



ENGAGING EMPLOYEES

Mobile telephones and Short Message Service (SMS) messages are one of the most common modes of communication.

Capable of reaching shift workers at odd hours.

Cost effective when compared to traditional interventions (e.g. boot camps and live presentations).



SMS DEVELOPMENT



sms

Literature Review

SMS Database Development



Modified Delphi Technique





EXAMPLE SMS MESSAGES

To: Mr Exercise Precontemplation

The World Health Organisation recommends 30 mins of moderate exercise 5 times / week. That's less than half a game of rugby.

 To: Mrs Nutrition Preparation

Frozen vegetables are just as healthy as fresh vegetables and a lot easier if you can't get to the shops regularly.

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To: Mr Exercise Maintenance

If you're finding your workouts easier it might be time to reassess your goals. What are you striving for?

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PHASE TWO: THE TRIAL

This study employs a randomized control design.

The independent variable (IV) = message configuration has been manipulated at 3 levels: semi-tailored, generic, and absent (i.e. no message).

The dependent variables (DV) = stage of change, exercise behaviours, and nutrition behaviours.

Exercise and nutrition behaviours will be measured in accordance with WHO (2013) guidelines.

IMPLICATIONS

Our study may be used to further current knowledge of the role of empowerment and personalisation in changing health behaviours.



SUMMARY

The SMS nutrition and exercise health behaviour change intervention aims to:





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