

How to improve pre-swim shower behaviour A minimal intervention field experiment in a holiday park (PPT)

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How to improve pre-swim shower behaviour

A minimal intervention field experiment in a holiday park

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Content

- 1. Introduction
- 2. Theory of behavioural change
- 3. Our study
- 4. Conclusions





Previous research

- behaviour -> Initial anthropogenic pollutants
 - Continual anthropogenic pollutants
- behaviour -> Incidental anthropogenic pollutants

60-80% of anthropogenic pollutants are released by unhygienic behaviour

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Introduction

What to do

Improvement of hygienic behaviour will reduce anthropogenic pollutants and reduce unwanted DBP's significantly



We needed help from behavioural scientists University of Twente.

Behavioural change (1)

Many publications on behavioural change:

- Using stairs instead of escalator
- Re-use of towels in hotels

Similarity of these study's:

- Use of posters with short messages
- Based on theories from behavioural science
 - Communication
 - Psychology



Behavioural change (2)

Global methods:

- Informative method
- Normative method
- Adding a game element
- (pointing towards) facilities



Informative method

Mechanism: when people know why certain behaviour is desirable, they act alike



Normative

Describe the social norm: what other people do or feel

Mechanism: deviation from the norm leads to social rejection



Adding a game element

Mechanism: no arguments but stimuli





(pointing towards) facilities

Mechanism: remove barriers to promote desired behaviour



Previous study

- 3 communal swimming pools
- 3 minimal interventions
 - 1. Normative
 - 2. Informative
 - 3. Routing game
- Informative method best results
- Barrier found in carrying belongings
- Additional variables due to different locations



Setup current study

- Reduce variables between locations
- Use holiday park swimming pool
 - Location variables are constant
 - Each week new set of visitors (subjects)



Interventions

- 2x informative
- 2x normative
- 2x (pointing towards) facilities

3x combinations of above



Informative



No irritated eyes?

Take a **shower before** swimming

Dirt on the body reacts with chlorine in the pool water. This causes irritated eyes. Showering before swimming washes away this dirt and reduces the chances of getting irritated eyes.



Taking a shower before swimming decreases chances of getting red eyes

Dirt on the body reacts with chlorine in the pool water. This causes irritated eyes. Showering before swimming washes away this dirt and reduces the chances of getting irritated eyes.

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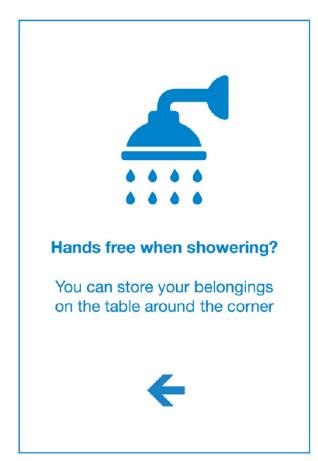
Normative





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Facilities





Method

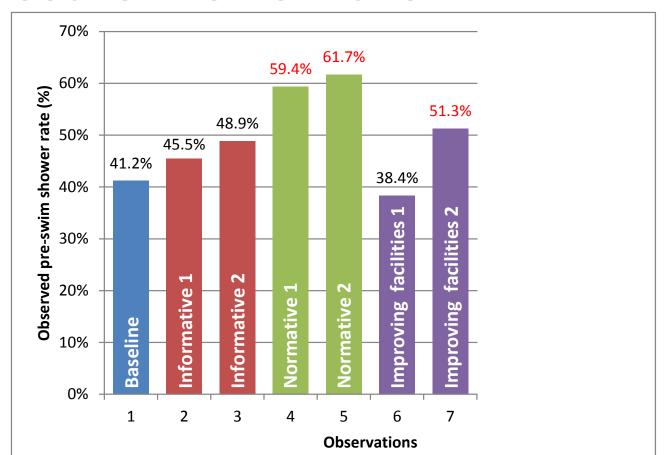
- Signs on the door leading to the shower/pool area
- Visual observation of visitors (no interaction with subjects)
- Reference: pre-swim shower% without signs
- 6 single interventions: each intervention 1 day observation
- 3 combinations of best single interventions

Total: 1771 swimmers observed



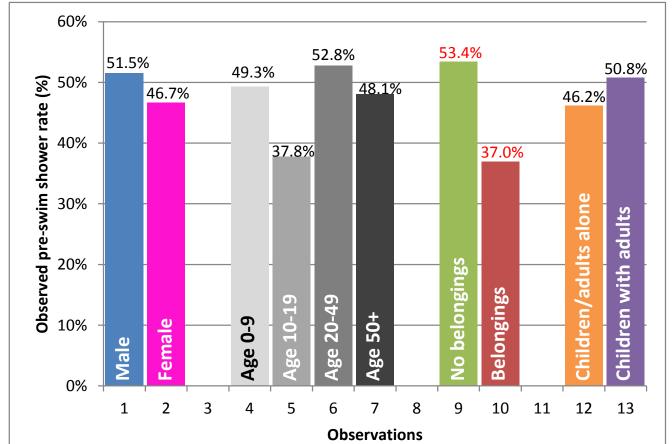


Results interventions





Results groups





Conclusions

Conclusions

- Communal pool → informative method
- Holiday park pool → normative method

Maybe different motivation for behavioural change in different types of swimmers



Conclusions

Future questions?

- What is the influence of watching eyes?
- What is the influence of audio/video messages?
- Does teaching normal hygienic behaviour during swimming lessons improve hygienic behaviour?
- What other barriers inhibit pre-swim showering?
- What is the optimal pool design for hygienic behaviour?
- How to get people to use a toilet when nature calls?
- Small changes can have a big influence



Van Remmen UV Techniek



CORAM





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Thanks for your attention

Questions?



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