

Smoke-free Dads: A game changer for better health Angela Leung, Noman Mohammad, Joan L. Bottorff, Mohammad Khalad Hasan, Laura Struik

INTRODUCTION

Background:

- There is a need for father-specific smoking cessation resources
- Majority of resources targeted towards mothers
- Children play a strong role in motivating fathers to quit smoking
- Key factors include potential effects on the child's health and their ability to care for the child
- The use of gaming strategies has been shown to be effective in promoting positive health behaviour changes
- An effective approach may include designing smartphone apps for supporting smoking cessation

Objectives:

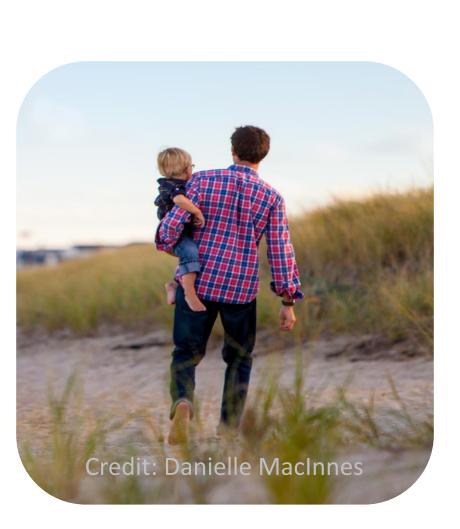
• Expand the reach of the Dads In Gear (DIG) program – a group-based smoking cessation program tailored for fathers



• Design a smartphone app with information, tools and gamification strategies to support smoking cessation

METHODS 2. Development Review of of app literature prototypes





REVIEW OF LITERATURE

Focused review of literature included:

- Evaluations of health apps developed for men
- Studies re: fathers and smoking cessation
- Use of gamification to support behaviour change

Identified user needs

Translate needs into features

Behaviour Change Techniques:

Highlighted examples of Behaviour Change Techniques (BCT) used in gamification:



Home Screen

Selfmonitoring

Credible

These BCTs are used and integrated into the DIG smartphone app.

Goal Setting → Selecting personal "Reasons to Quit" at registration

Social Support \rightarrow Opportunity to connect with other fathers in forums

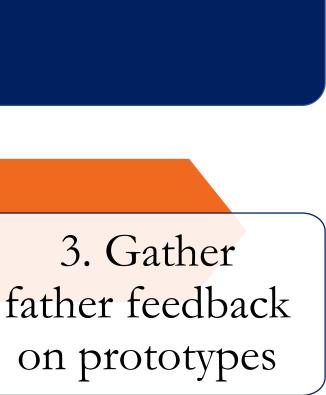
Feedback → Tracking number of cigarettes smoked

DEVELOPMENT OF APP PROTOTYPES

Evidence-based, father-friendly, high-fidelity app prototypes to support smoking cessation, fathering, and healthy lifestyles were designed, including:

- Distraction game
- Rewards page
- Quizzes

• Smoking cost calculator • Community board • Quit stories from other dads



Resources from the DIG booklets





Quit stories

PRELIMINARY FINDINGS & NEXT STEPS

- \bullet motivation
- The game components were positively reviewed with
- \bullet provide tailored support and notifications

Next Steps:

•Continue recruitment of fathers to gather feedback on DIG app prototypes

The DIG smartphone app has the potential to reach a wide range of fathers who smoke and provide a valuable addition to existing smoking cessation resources.

CONCLUSION

•Conduct a content analysis of data gathered from end users to inform revisions to the DIG app

•Create recommendation s for a pilot mobile application

suggestions for improvement Personalisation of app were viewed favourably to

family health are important parts of the app for

Participants have expressed financial incentives and







