

Co-design and pilot test of MOTIVATIONAL INTERVIEWING TRAINING PLATFORM for improving healthcare professional communication on medication adherence

Thu Ha Dang^{1,2,3}, Chris Ludlow¹, Hannah Borle⁴, Marliese Alexander^{2,5}, Nilmini Wickramasinghe^{1,6,7}, Kate Burbury^{2,5}, Prem Prakash Jayaraman¹, Penelope Schofield^{1,2,5}

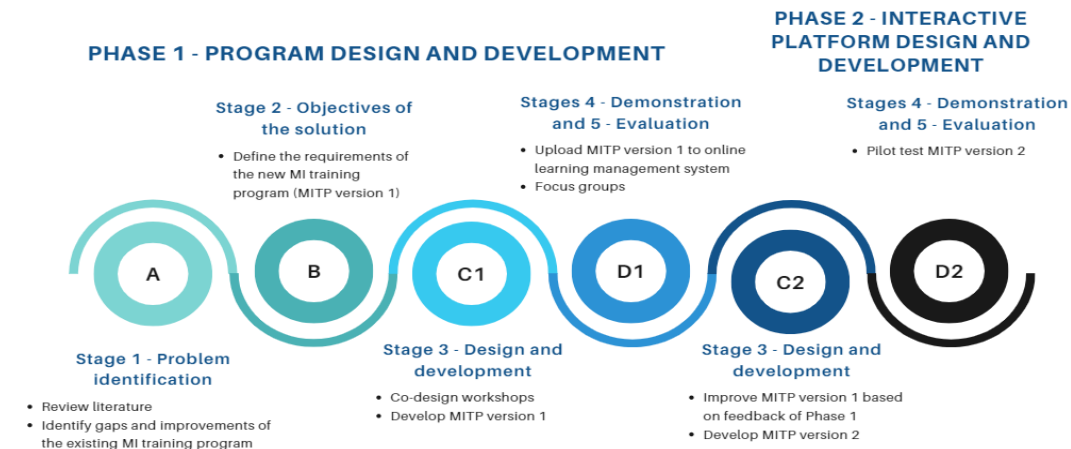
¹Swinburne University of Technology; ²Peter MacCallum Cancer Centre; ³Digital Health Cooperative Research Centre; ⁴Northern Health; ⁵The University of Melbourne; ⁶La Trobe University; ⁷Epworth Healthcare, Australia

INTRODUCTION

- Oral medication self-management is challenging in cancer^{1,2,3}
- Motivational interviewing (MI) is a patient-centred behavioural change approach, that can promote patients' medication adherence (MA) and self-management^{4,5,6}

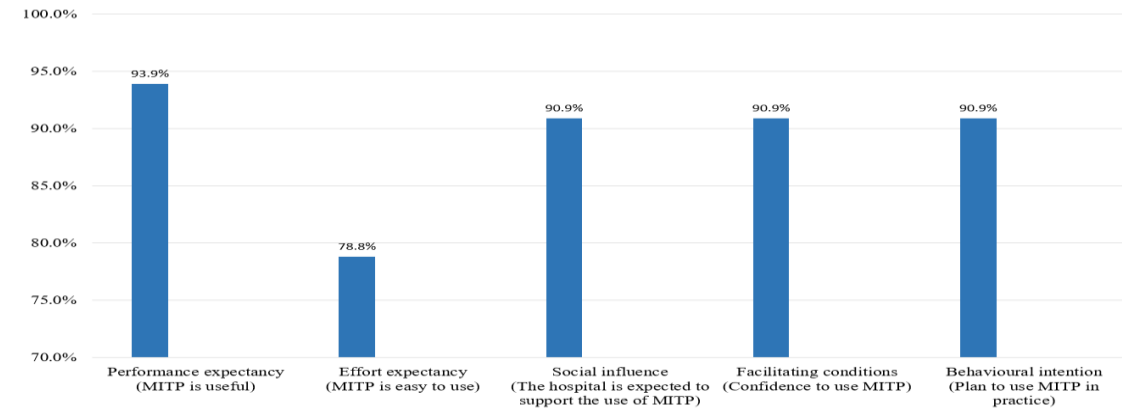
AIMS To co-design, develop, and test the acceptability, usability, and perceived usefulness of an MI training platform (MITP) for oncology healthcare professionals (HCPs)

METHODS



Applying Design Science Research Methodology (DSRM)^{7,8} to design and develop the Motivational Interviewing Training Platform (MITP)

RESULTS



Healthcare professionals' opinions about the MITP in the user-testing study (adapted UTAUT)^{9,10} (n=33)

- The MITP was “*excellent*” (P16, P33 & P35) and “*based on evidence*” (P33).
- The content and roleplay examples were “*comprehensive*” (P8) and “*thorough without being too heavy*” (P13), and the videos were “*engaging*” (P16).
- MI can “*engage*” (P15 and P24), “*avoid didactic conversations*” (P1) and “*empower*” patients (P7), which is “*extremely helpful*” (P16 and P20) in “*improving MA*” (P31).
- The course was “*easy to follow*” (P4, P16, P2 & P44), and “*useful in practice*” (P4, P15 & P34).
- Participants wished for the MITP to be “*mandatory training for all medical, nursing and allied health staff*” (P31).

CONCLUSIONS

- This is the first MI online training program for oncology HCPs focusing on MA
- The MITP was rigorously co-designed and developed following DSRM
- User-testing's HCP participants found the MITP acceptable, usable, and useful and intended to use MI in clinical practice
- Next steps: conducting a randomized controlled trial to examine the feasibility of a digital MA solution, comprising the MITP and a mobile app.

Comments/ Questions? - Email: thuhadang@swin.edu.au

References

¹Abraham. What does it take to provide cancer patients with comprehensive medication therapy management services for oral chemotherapy? 2016. ²Makubate. Cohort study of adherence to adjuvant endocrine therapy, breast cancer recurrence and mortality. 2013. ³Çakmak. The Effect of Educational Follow-Up with the Motivational Interview Technique on Self-Efficacy and Drug Adherence in Cancer Patients Using Oral Chemotherapy Treatment: A Randomized Controlled Trial. 2021. ⁴Miller & Rollnick. What is motivational interviewing? 1995. ⁵Spencer. A systematic review of Motivational Interviewing interventions in cancer patients and survivors. 2016. ⁶Hayward. Medication Self-Management: A preliminary report on an intervention to improve medication compliance. 1995. ⁷Hevner. Design Science in Information Systems Research. 2004. ⁸Hevner & Wickramasinghe. Design Science Research Opportunities in Health Care. 2018. ⁹Venkatesh. User Acceptance of Information Technology: Toward a Unified View. 2003. ¹⁰Venkatesh. Consumer Acceptance and Use of Information Technology: Extending the Unified Theory of Acceptance and Use of Technology. 2012

Acknowledgement: This publication is supported by the Digital Health CRC Limited (DHCRC), Swinburne University of Technology, Peter MacCallum Cancer Centre (project DHCRC-0043). DHCRC is funded under the Australian Commonwealth's Cooperative Research Centres (CRC) program. Thu Ha Dang is supported by the Australian Government Research Training Program Scholarship.

