

# Awareness and self-efficacy of deprescribing and inappropriate polypharmacy in hospital clinicians post-completion of an online HETI module

Brendan Ng<sup>1,3</sup>, Mai Duong<sup>2</sup>, Sarita Lo<sup>2</sup>, Katie Willey<sup>4</sup>, Malcolm Brown<sup>4</sup>, Justin Turner<sup>5</sup>, David Le Couteur<sup>1,3</sup>, Sarah Hilmer<sup>1,3</sup>

1. Faculty of Medicine, University of Sydney, Sydney, Australia

2. Ageing and Pharmacology Laboratory, Kolling Institute, Royal North Shore Hospital, St Leonards, NSW, Australia

3. Ageing and Alzheimers Institute, Concord Hospital, Concord, NSW, Australia

4. Developer, District Health and Education Training Institute, NSW, Australia

5. Centre de recherche, Institut universitaire de gériatrie de Montréal, Montreal, Canada

## Introduction

- Hospitalisation represents an opportunity to reduce inappropriate polypharmacy in older adults with multi-morbidity. This is not routinely addressed during admission, despite the increasing literature around deprescribing.
- Identified barriers and enablers to deprescribing in clinicians are awareness, self-efficacy, clinical inertia and feasibility.
- The effectiveness of online educational modules to improve deprescribing of inappropriate polypharmacy remains unclear.
- This is part of a multi-factorial intervention aiming to reduce inappropriate polypharmacy in older inpatients and an RACP Evolve Trainee demonstration project which promotes:
  - **ANZSGM Evolve Guideline 2:** *Do not prescribe benzodiazepines or other sedative-hypnotics to older adults as first choice for insomnia, agitation or delirium*
  - **ANZSGM Evolve Guideline 4:** *Do not prescribe medication without conducting a drug regimen review*

## Objectives

- 1) Develop an online Health Education and Training Institute (HETI) module to educate multi-disciplinary clinical staff who care for older adults in hospital on inappropriate polypharmacy and deprescribing.
- 2) Describe hospital clinician and medical students' awareness of inappropriate polypharmacy and self-efficacy for deprescribing after completing the HETI module.

## Methods

### Online HETI Module

An animated case-based online module on inappropriate polypharmacy and deprescribing through drug regimen review was developed with NSW HETI using a subject matter expert group. (Fig 1)

### Module Aims

Promote awareness of inappropriate polypharmacy amongst hospital staff with a focus on management in hospitalised patients

Increase engagement and adoption of deprescribing, highlighting interdisciplinary communication

Reference and direct learners to the available supporting tools and systems

### Study design: Cross-sectional Survey

A piloted online questionnaire investigating awareness of polypharmacy and self-efficacy of deprescribing was developed using literature and expert opinion. Investigating awareness and self-efficacy. It will be administered to a convenience sample of hospital clinicians and medical students after the HETI module (Fig 2).

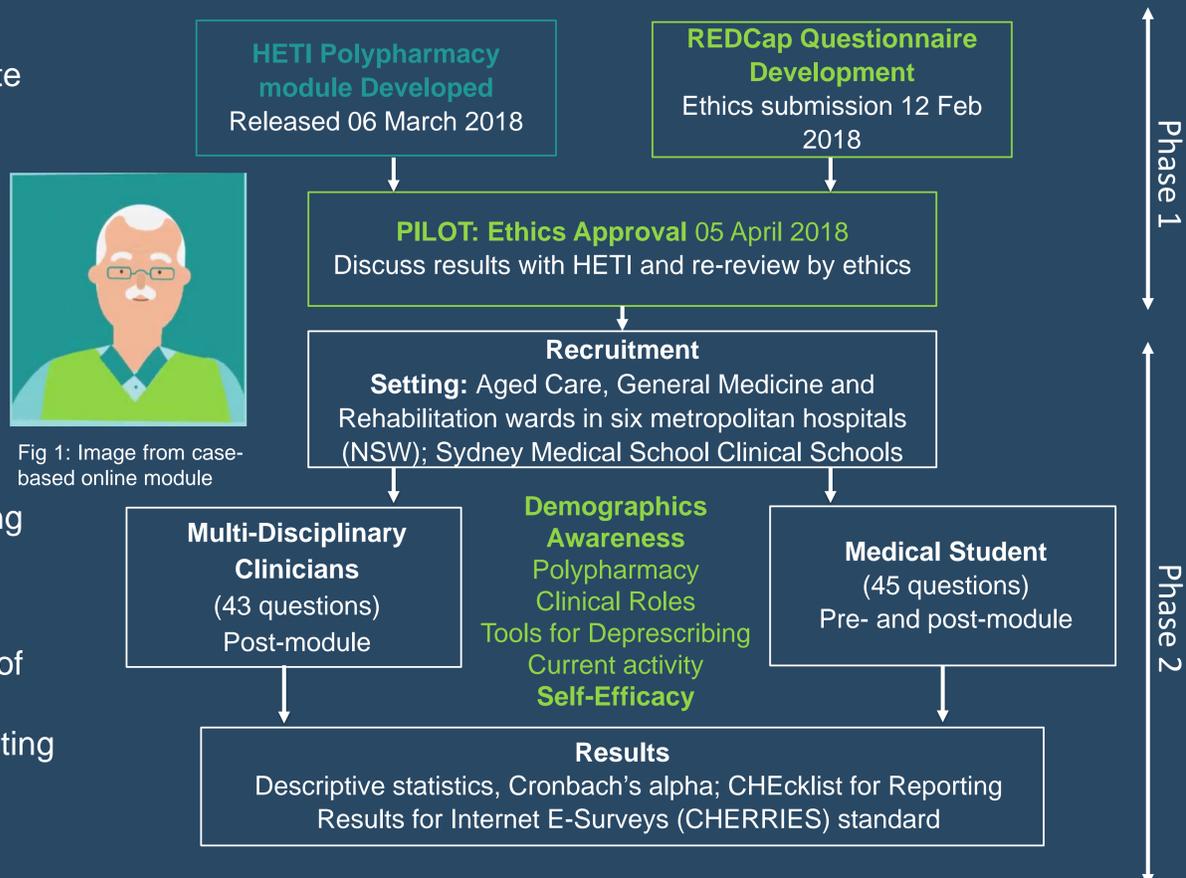
## Results

### Online HETI Module

Available on My Health Learning (HETI platform), Course code 185346268, Keyword Polypharmacy

### Questionnaire Pilot

- Piloted: 35 participants
  - 6 doctors, 12 pharmacists, 6 allied health, 3 medical students, and 8 nurses
- Face validity, content validity and readability
- Mean Completion time: 07:38 mins
- Mean System Usability Score = 77.73/100
- Questionnaire compatible with Mac/PC and mobile phone



## Discussion

Use of online education in deprescribing may promote behavioural change. Understanding awareness and self-efficacy can be used to facilitate further behavioural interventions.

### Strengths

- Broad sample population including medical students
- Theoretical underpinning

### Limitations

- Respondent bias and convenience sampling
- 'Mandatory training fatigue'
- Medical student proxies for hospital clinicians

Funding: Translational Research Grant 274, ANZSGM Travelling Scholarship, Scholarships from AAI and Penney Ageing Research Trust.