

Expansion of the 'Reducing Use of Sedatives' (RedUSe) project to Australian nursing homes

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Sedative medication



Antipsychotics

- The overall treatment effect of antipsychotics to manage agitation in dementia is 18%
- Associated with movement disorders, confusion, increased falls risk and metabolic disturbances
- Increases stroke risk and all-cause mortality



Benzodiazepines

- Effective for anxiety and sleep disturbance.... But short term
- Development of tolerance/ dependence after 2-4 weeks
- Use is linked to falls, gait & language impairment and cognitive decline



'Good Practice' to manage behaviours, anxiety and sleep

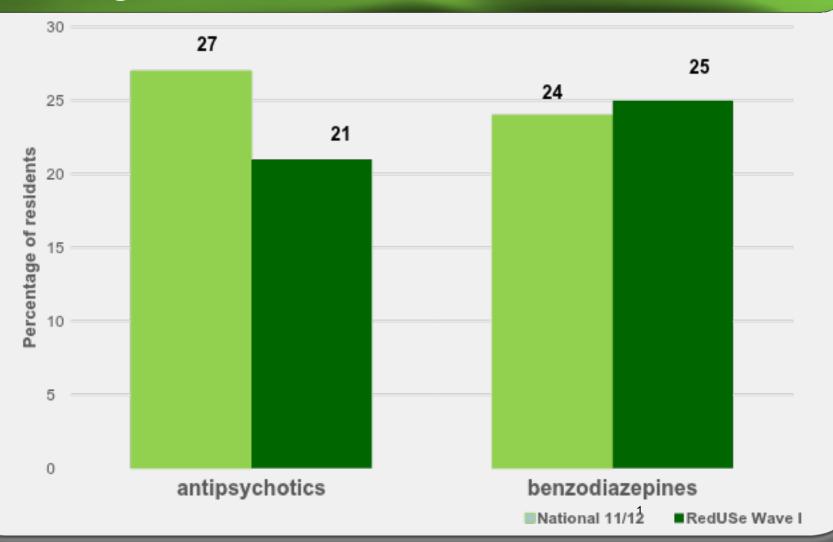


- Seek other causes
- Use non-drug measures first line
 Sedative medications have modest effects with significant risks
 - Antipsychotics should only be used in situations where behaviour causes significant distress or risk of harm
 - Benzodiazepines should only be used short term, intermittently
- Review regularly and stop as soon as possible
 - Antipsychotics: review every 3 months
 - Benzodiazepines: review after 2 weeks



Use of sedatives in Australian nursing homes





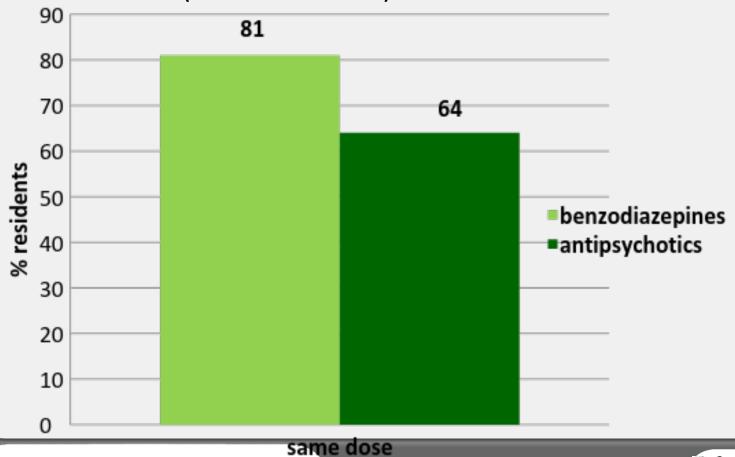




How often are sedatives reviewed?



Tasmanian ACH residents taking sedatives were compared from 2005 to 2006 (1005 residents)







Objectives of our intervention



- To promote the appropriate use and review of benzodiazepines and antipsychotics in nursing homes
- To implement a multi-faceted interdisciplinary intervention that specifically targets sedative medication





About the initial RedUSe trial



A controlled trial of 25 Tasmanian nursing homes in 2008/9:

- 13 homes in Hobart (intervention)
- 12 homes in Launceston (control)

Both <u>Intervention and Control</u> nursing homes:

Clinical audit of sedative use, benchmark & feedback

Intervention nursing homes only:

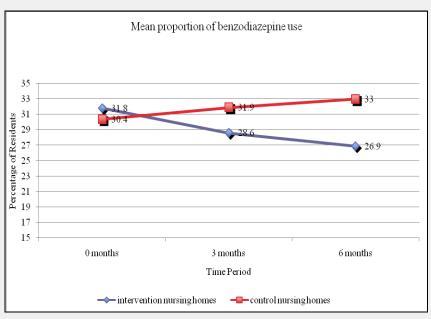
- Educational sessions for nursing staff
- Interdisciplinary sedative medication review plan
- Promotional material, printed guidelines, academic detailing, newsletters etc.

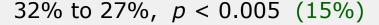


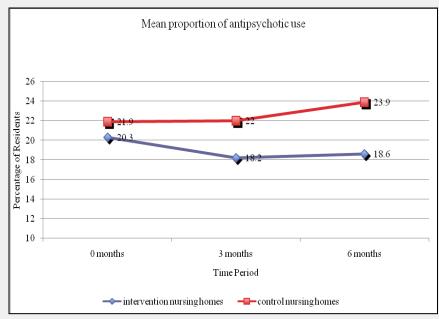
Rates of sedative use



Overall proportion taking benzodiazepines and antipsychotics







21% to 18%, p = 0.047 (15%)



RedUSe national extension



- Intervention extended from 13 homes to 150 nursing homes
- Nationwide not confined to Tasmania...involve rural/remote

FOUR STEPS of a systematic approach using the TDF: 1

- 1. Who needs to do what, differently?
- 2. What worked, what didn't? (enablers and barriers)
- 3. How can we improve outcomes?(enhancing enablers & overcoming barriers)
- 4. Improve change measures.....Rigorous evaluation French S, Green S, O'connor D, Mckenzie J, Francis J, Michie S, Buchbinder R, Schattner P, Spike N, Grimshaw J:
- French S, Green S, O'connor D, Mckenzie J, Francis J, Michie S, Buchbinder R, Schattner P, Spike N, Grimshaw J:

 Developing theory-informed behaviour change interventions to implement evidence into practice: a systematic approach using the Theoretical Domains Framework. *Implement Sci* 2012, 7: 38 http://www.implementationscience.com/content/7/1/38



Step 1: What and who?



What is the evidence-practice gap?

Following sedative 'good practice' recommendations

What behaviour change is needed?

Review of sedative medication

Specify the health professional group whose behaviour needs changing?

"Involvement of nursing staff is a key consideration" 1

¹ Nishtala P et al. 'Psychotropic prescribing in long term care facilities: Impact of medication reviews and educational interventions.' Am J Geriatr Psychiatry 16:8, August 2008



Steps 2 & 3: Barriers, Enablers & change



The Theoretical Domains Framework (TDF) was used to identify enablers and barriers to the target behaviours and to refine the intervention.

- Qualitative methodology comprising of two focus groups with nurses and pharmacists was selected to ascertain key barriers and enablers.
- Behavioural change techniques were subsequently identified to overcome the barriers and enhance the enablers, and were tested in a pilot phase comprising of 27 nursing homes across three states for 6 months.



Key barriers, enablers & behaviour change techniques



Barrier/enabler	Which TD?	Behavioural change techniques
Belief that sedatives improve quality of life	1. Beliefs about consequences2. Knowledge	Information provision; persuasive communication Mode: two facilitated staff workshops, case study
GP engagement	 Professional role and identity Environmental context 	persuasive communication <i>Mode:</i> respected professional - academic detailing, role model emphasising GP role in interprofessional team.
No clear role delineation for sedative review process	 Professional role and identity Skills 	Persuasive communication; rehearsal of review process <i>Mode:</i> workshop with champion nurses and pharmacists
Nurses wanting knowledge and empowerment	 Knowledge Professional role and identity 	Information provision; persuasive communication; model behaviour <i>Mode:</i> staff workshops, increasing nurse involvement in decisions

Step 4: Rigorous Evaluation



Of behavioural change techniques

- qualitative interviews, surveys
- Rates of sedative use, dosage reduction, initiation

Practitioner outcomes

- Job satisfaction surveys
- Qualitative focus groups

Resident health outcomes

Psychometric testing, QOL measures, engagement





Conclusion



 The TDF looks to be an effective tool to identify the key barriers and enablers to the RedUSe project, facilitating the incorporation of several novel behavioural change techniques.

 The success of the expanded project will be reported after full implementation and evaluation.







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