Establishing pathways and processes to implement and sustain evidence-based fall prevention in primary care

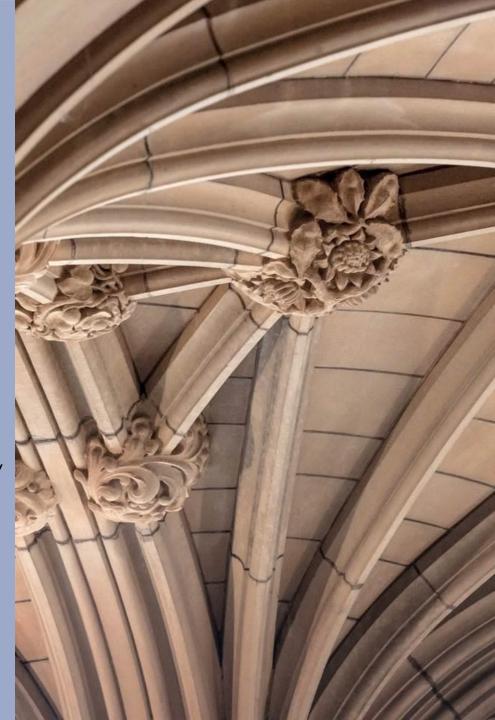
### THE ISOLVE PROJECT

4th International Conference of Long-term Care Directors and Administrators, UNSW, 2018

Lindy Clemson Professor in Ageing & Occupational Therapy University of Sydney







# CHALLENGES IN EVIDENCE UPTAKE AND TAKING TO SCALE

Older people think a fall is just a part of 'ageing'

GP's report barriers

Screening does not lead to intervention Interventions in research have better outcome

< 30% of health care providers routinely screen for falls.

No clear model for delivery in primary care



### THE ISOLVE PROJECT

#### **Investigators**

- Prof Lindy Clemson
- A/Prof Lynette Mackenzie
- A/Prof Chris Roberts
- Dr Meryl Lovarini
- A/Prof Roslyn Poulos
- Prof Karen Willis
- Prof Cathie Sherrington
- Dr Sabrina Pit
- Prof Judy Simpson
- A/Prof David Peiris
- Dr Mary Lam
- Dr Anne Tiedemann
- Prof Dimity Pond
- Dr Judy Stevens (CDC, US)

#### **Partners**

- Sydney North Health Network, Cynthia Stanton/Deborah
   Pallavicini
- Clinical Excellence Commission, Lorraine Lovitt

#### **Co-ordinator**

Dr Amy Tan

#### Research Assistants

Dr Jeannine Liddle Fiona White

#### **Advisory Committee**

Northern Sydney Local Health
District, GP, pharmacist,
occupational therapist,
physiotherapist, exercise
physiologist, podiatrist, nurse,
hospital, consumer representatives

### NHMRC Partnership Project Grant: 1072790 (2014-2019)

ANZ Clinical Trial Registry: ACTRN12615000401550

Website: www.bit.ly/isolve



Integrated SOLutions for sustainable fall preVEntion









## AIMS OF THE ISOLVE PROJECT

Establish integrated processes and pathways to identify older people at risk of falls and engage a whole of primary care approach to fall prevention.

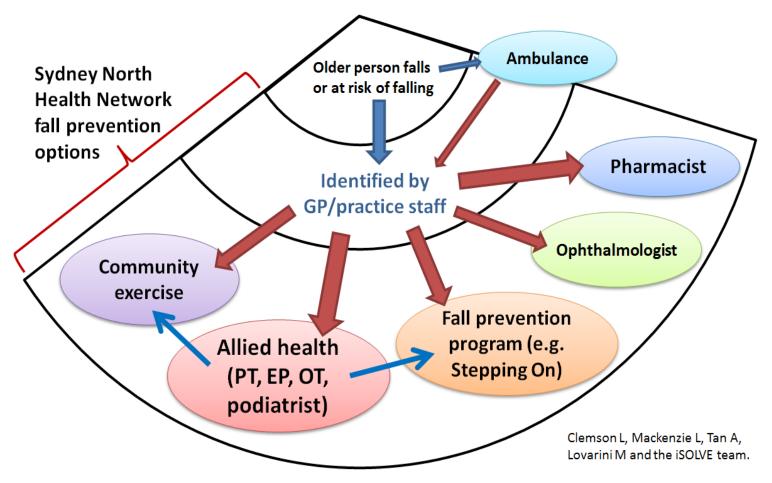
Form referral pathways and networks with GPs and allied health service providers

Improve access to appropriate fall prevention interventions for older people, ensure ongoing knowledge acquisition and sustainable action by healthcare professionals and organisations.



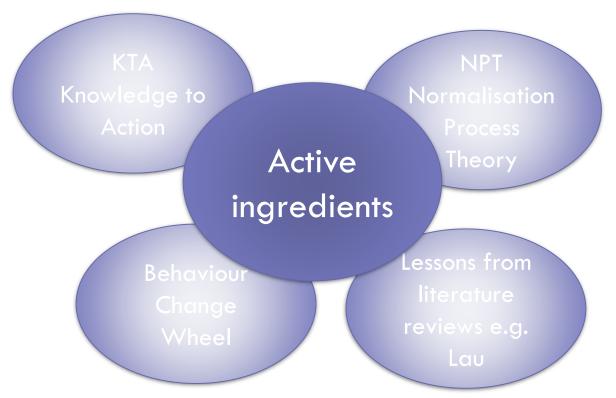


### iSOLVE: the patient referral journey





#### USING A CONCEPTUAL MODEL TO UNDERSTAND HOW?



If you know how it works you can identify



- Active Ingredients
- Behaviour change strategies
- Implementation methods
- Implementation resources
- Barriers and enablers



# ACTIVE INGREDIENTS OF ISOLVE IMPLEMENTATION INTERVENTION

# Identifying and managing fall risk in GP practice

- GP educational detailing
- Decision support tools
- Tailoring to fall management
- Paper or GP computer systems

# Allied health – knowledge translation and upskilling

- Local workshops
  - evidence-based, interactive
  - Planning for implementation

# Establishing referral pathways

- Network communication strategies
- Mapping of AHPs
- •Integrated in Health Pathways
- Links with ambulance services

#### Diffusion and implementation

- Woking with partners
- On-line decision tool for general practice
   On-line GP learning module
- Guiding strategy document

Clemson et al., implementation science 2017

# PREVENTING FALLS WORKSHOPS (N=13) IN THE LOCAL AREA

2016-2017

**Exercise interventions** 

Functional Exercise (LiFE)

Home environment interventions

Preventing falls from the ground up – ankle

and foot interventions

Managing medications

2018

Implementing falls prevention in general practice



# Research methods: hybrid type 2 effectiveness-implementation study

Develop implementation intervention

#### How does it work?

GPs and Allied Health Professionals (AHPs)
Process evaluation
Interviews and surveys with allied health
professionals and GPs
Social network mapping

SNPHNwide roll out of iSOLVE

Is it effective?

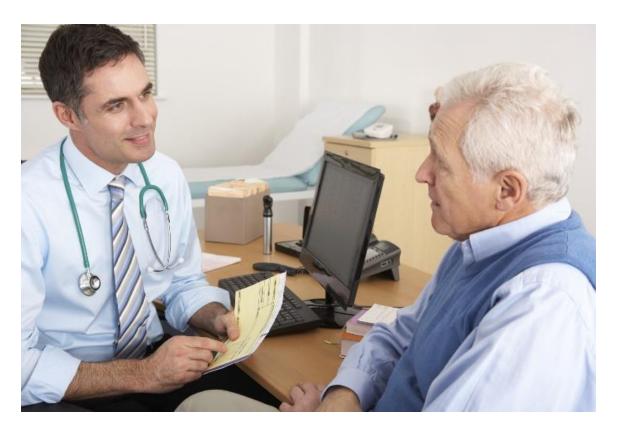
GP practice change, patient falls
Cluster randomised pragmatic trial 27 general

practices; 560 patients

Geographical impact? - annual survey of GPs across the SNPHN

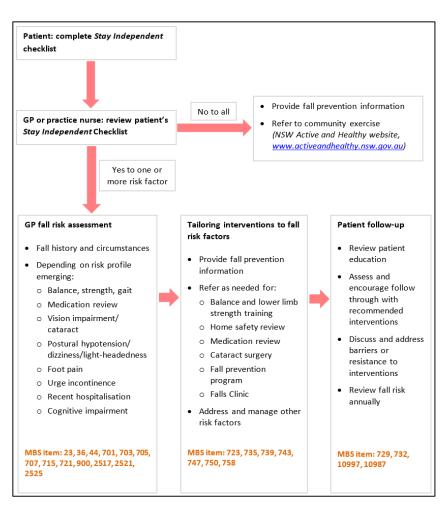


#### THE GENERAL PRACTICE WORK FLOW



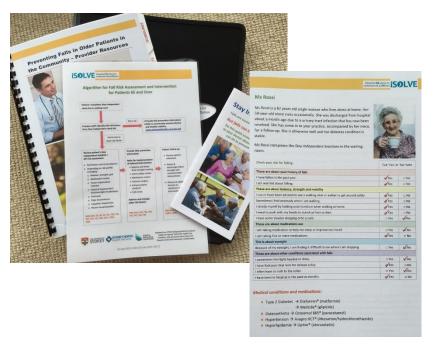


### **iSOLVE DECISION TOOLS AND GP RESOURCES**



Identify patients at risk
When you see a patient 65 years
or over, ask these two questions
routinely:

- Have you had any falls in the past year?
- Are you worried about falling?





# Identify Patients

- GP asks the question
- Practice nurse screen
- Annual reminders
- Recall letters

# Patient self assessment

Stay Independent checklist Paper or Tablet

14 questions: fall history, balance/ mobility, medications, vision, dizziness, foot pain, urge incontinence, recent hospital

# GP fall risk assessment

Asks fall history and additional risk questions

Paper or GP software







### Management Plan: Tailoring interventions to fall risk factors

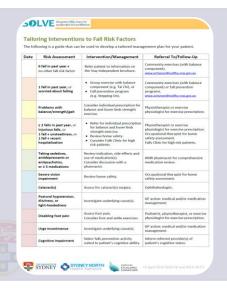
- Evidence-based
- Automatic list of tailored interventions (online)
- GP Fact sheets and Patient Flyers (online)

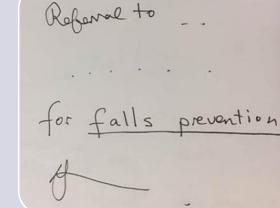
# Referral pathways

Local fall service directory (SNPHN)

#### Follow up

- Recommendation follow through
- Discuss barriers
- Annual fall risk review







## GP INTERVIEWS: PRELIMINARY FINDINGS

# 25 GPs, 2 Practice nurses, 1 Practice manager

### The 'work' of the intervention in practice

#### **HOM**<sup>§</sup>

- The iSOLVE system to identify and reduce risk
- Paper versus IT
- Training component: 'so you're educating yourself and the patient at the same time'
- Asking the question the Mantra
- Expands scope of practice



## GP INTERVIEWS: PRELIMINARY FINDINGS

### The 'work' of the intervention in practice

#### **MHO**s

- patients with falls and near-falls
- Wider cohort patients 65-75 years
- Move from RCT to routine practice

#### WHAT/CONTENT?

- Clear guidelines for practice nurse
- •values iSOLVE "system" and resources. "Loved it"
- Serendipity findings



## **GP INTERVIEWS**

#### MOTIVATORS TO TAKE PART

- keep people out of hospital
- Relevant to patient population
- Other GPs in practice doing it
- patient readiness
- about 'real grass roots stuff'
- previous involvement in research

#### MOTIVATORS FOR NOT TAKING PART

- already have the knowledge and practice falls prevention
- no time for a project/ concerns with pace of work



## **GP INTERVIEWS**

# FACILITATORS TO MAKING THE INTERVENTION ROUTINE IN PRACTICE

- Relevant resources, Clear guidelines
- A quick and easy 'system'
- Within scope of practice
- GP internalises the process "so you get it organised in your head".
- 'nudged' by research project co-ordinator
- Clinical audit a prompt to follow up on patients

#### BARRIERS TO ROUTINISATION

- IT issues with software
- GPs forgetting what to do over time
- Time/competing priorities
- AHP feedback to GPs ad hoc
- Access to community service
- Preference for existing allied health professionals



#### **GP QUOTES**

"I don't think I was managing falls that well before. I mean, I would just attend to the medical thing I could manage, but now I have an awareness that I have to check the eyes, the foot, the management of the home better — all these other aspects that are part of it. So yeah, I'm more comprehensive. Before, I don't think I liked to proactively manage it. I just let falls happen."

"I have a structure to work with — I ask the questions and I know the answers. It's quite easy to follow. I was doing those things sending patients to physios and OTs and podiatrists — but I think more in terms of fall prevention. I picked up patients because I was thinking actively about who could benefit."



### **GP INTERVIEWS**

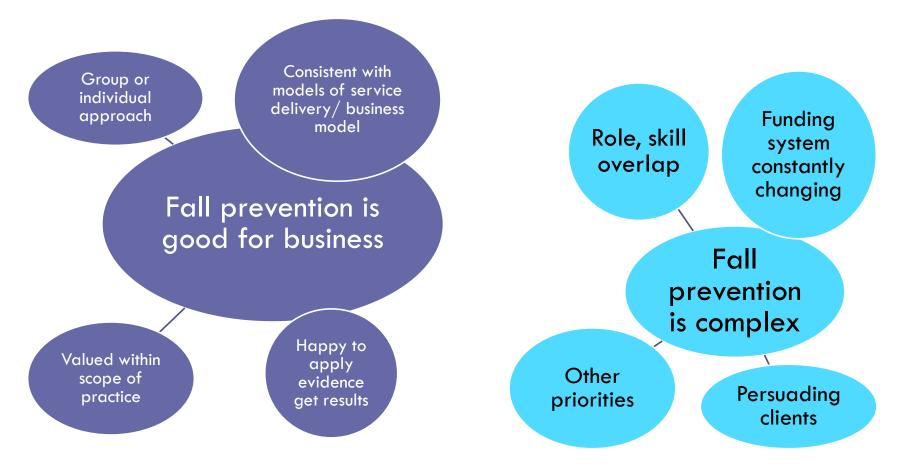
#### **REFLECTIONS**

- Practice shift from screening to prevention
- Assumptions were challenges
- Making it routine —internalising the process
- iSOLVE as a 'script'
- iSOLVE fall prevention as a "system"
- Paper system worked
- •The role of practice staff GP, PN, receptionist
- More aware of community services, role of AHP



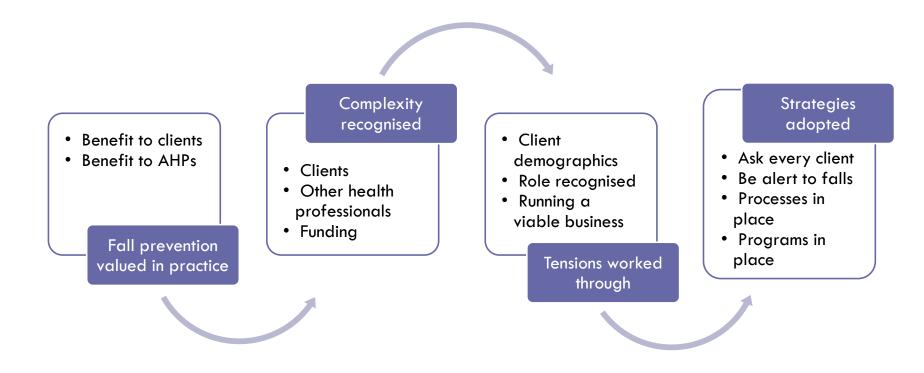
### ALLIED HEALTH PROFESSIONAL INTERVIEWS

a glimpse of allied health perceptions following workshops (n=1.5)





# AHPS INTEGRATING FALL PREVENTION INTO ROUTINE PRACTICE





# ON-LINE MODULES



DME ABOUT COURSES RESOURCES FAQ CONTACT





#### Preventing Falls is Important



## **ISOLVE: NEXT STEPS**



Quantitative findings to be analysed

Iterative process —working with partners to see how implement in whole of area- and beyond

ISOLVE built into SNPHN Health Pathways

On-line resources

? Sustainability of AHP and pharmacy training

iSOLVE Working strategies document – to disseminate beyond

Engage other stakeholders – work with ambulance

Expand iSOLVE into other GP software so integral and familiar – pilot with new resources



# LESSONS LEARNT FOR CHANGE IN PRIMARY CARE

- Fit and buy-in
- Might be complex but at some level needs to be simple to work
- Incentives financial, access to training, support
- Its not the process or the technology but how
- Relationships
- Roles and responsibilities
- >A barrier or facilitator depends on context.
- Change needed at practice, behaviour and perception/thinking levels



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