Interprofessional education to implement patient falls education in hospitals: Lessons learned

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Abstract

Aim: The aim of this study was to design, deliver and evaluate an interprofessional education programme for healthcare professionals on how to implement a modified version of the safe recovery programme to prevent falls in hospitalized patients.

Design: Mixed methods design incorporating pre- and post education surveys and individual semi-structured interviews.

Methods: Thirty-four health professional participants attended a 1-h face-to-face or Zoom® interprofessional education session to learn how to deliver an evidence-based patient falls prevention education strategy, the modified Safe Recovery Programme.

Results: A 1-hour education session was insufficient to build full confidence to deliver the Safe Recovery Programme. There was no statistically significant change in participant views on interprofessional collaboration. Participants recommended prior consultation and preparation before delivery of IPE, with additional opportunities for discussion and feedback during implementation with patients. The findings highlight the importance of interprofessional education for evidence-based interventions in hospitals. Health professionals value education that is timely, interactive, realistic and engaging.

KEYWORDS
accidental falls, hospital, implementation, interprofessional education, nursing, physiotherapy, simulation
1 | INTRODUCTION

Despite a wide range of interventions for preventing falls in hospitals and care facilities, falls in healthcare organizations remain a serious problem worldwide (Avanecean et al., 2017; Cameron et al., 2018; Morris et al., 2021). Patient education is an integral part of falls prevention and has been found to have a positive effect on the risk of hospital falls (Francis-Coad et al., 2021; Heng, Jazayeri, et al., 2020; Hill et al., 2019; Hill, McPhail, Waldron, Etherton-Beer, Flicker, et al., 2015; Hill, McPhail, Waldron, Etherton-Beer, Ingram, et al., 2015). Falls prevention education for patients aims to increase their understanding of falls and falls risk, as well as empowering them with falls prevention strategies (Haines et al., 2015; Naseri et al., 2021).

2 | BACKGROUND

The Safe Recovery Programme (SRP) is an individualized patient education programme based on the principles of health behaviour change and has been found to be effective in reducing falls rates in hospitals (Haines et al., 2011; Hill, McPhail, Waldron, Etherton-Beer, Flicker, et al., 2015; Hill, McPhail, Waldron, Etherton-Beer, Ingram, et al., 2015). The SRP has four stages aimed at empowering patients to improve their safety in hospital: (i) assessing risks; (ii) goal setting; (iii) reviewing goals; and (iv) follow-up (Haines et al., 2011; Hill, McPhail, Waldron, Etherton-Beer, Flicker, et al., 2015; Hill, McPhail, Waldron, Etherton-Beer, Ingram, et al., 2015).

Patients have been found to prefer individualized education as well as consistent and standardized information from all clinical staff (Heng, Slade, et al., 2020; Naseri et al., 2021). Allied health professionals and nurses play a key role in providing patient education (Hill et al., 2016; Shaw et al., 2020; Shaw, Kiegaldie, & Morris, 2021; Shaw, Kiegaldie, Morris, & Jones, 2021), making it essential to educate them on how to do this effectively. Education programmes for healthcare professionals that embed evidence-based practice as well as evidence-based teaching and learning methods enhance quality patient care (Lehane et al., 2019). High-quality, interactive education programmes for healthcare professionals are known to influence implementation of falls prevention strategies in a hospital setting (Shaw et al., 2020; Shaw, Kiegaldie, & Morris, 2021; Shaw, Kiegaldie, Morris, & Jones, 2021).

Interprofessional education (IPE) offers opportunities for participants from different professional groups to learn with, from and about each other (Barr, 2002; Kiegaldie, 2021) to improve collaborative practice and patient-centred care. To optimize falls prevention education to patients and ensure the content and delivery of patient education is consistent across professions, education for healthcare professionals should reflect the importance of an interprofessional approach (Heng et al., 2021; McKenzie et al., 2017; Reeves et al., 2017; Wheeler et al., 2018). Biggs’ 3P model for educational design has been expanded to a 4P approach (Planning, Presage, Process and Product) (Kiegaldie, 2017). See Figure 1. The 4P model offers a comprehensive systems-based theoretical model of learning and allows for a greater understanding of the different factors that impact educational delivery and implementation (Baker et al., 2010; Kiegaldie, 2021).

The aim of this study was to design, deliver and evaluate an IPE programme for healthcare professionals on how to implement a modified version of the SRP to prevent falls in hospitalized patients. The intervention from this study supported a trial that involved healthcare professionals delivering the modified SRP to patients in an acute hospital setting. We sought to investigate whether an IPE programme develops healthcare professionals’ (i) motivation and confidence in facilitating an interactive patient education intervention on falls prevention, (ii) appreciation of the value and role

**FIGURE 1** 4P model of educational design (Kiegaldie, 2015)
of other health professionals in falls prevention, (iii) knowledge and capability for interprofessional collaboration.

3 | METHODS

3.1 | Study design

The study employed a mixed methods pre- and post questionnaire design followed by semi-structured telephone interviews, to triangulate the data from different approaches. Sequential exploratory design was used with the interview data building on the survey results (Creswell et al., 2003).

3.2 | Sample and study settings

The study took place on the medical wards of an Australian private acute hospital. All allied health professionals and nurses working on the intervention ward were eligible and invited to participate via email. On the day of the IPE intervention, consenting participants completed a PICF, pre-test and post-test surveys.

3.3 | Intervention

Training was delivered either face to face or via a video conferencing system, Zoom®. Participants received a 1-h IPE programme, which was the most time available for busy clinicians to attend. The programme educated participants on the latest evidence on patient education for falls prevention, how to implement the modified SRP and how to achieve effective interprofessional collaborative practice. A mixture of interactive teaching methods was used including small group discussion on participants’ current falls prevention education to patients, a small group critical thinking activity on the barriers and facilitators to delivering falls prevention education to patients, and content delivery on the latest evidence on patient education and its role in falls prevention in hospitals. Three pre-recorded vignettes using simulated participants demonstrated delivery of the modified SRP. Laminated scripts of the modified SRP were provided for participants to use during the education intervention and instructions for implementation (see Supplementary Material). Multiple copies were also available on the hospital ward throughout implementation of the intervention. The PowerPoint presentation of the education was made available for those staff unable to attend training and to supplement learning for staff who attended.

3.4 | Ethics approval

Research Ethics Committee approval was obtained from La Trobe University’s Health and Engineering College Human Ethics Sub-Committee (HEC21023).

3.5 | Data collection and instruments

A pre-test, post-test method of data collection was used. A commercial online survey software program, Qualtrics (Qualtrics Provo, Utah, USA), was used for online data collection. Prior to receiving the IPE programme, consenting participants responded to a survey to measure their attitudes and perceptions towards evidence-based falls prevention education and interprofessional collaborative practice. The survey on evidence-based falls education (Table 4) includes 8 items on a five-point Likert Scale (1 = strongly disagree, 5 = strongly agree). The Interprofessional Collaborative Competency Attainment Survey (ICCAS) (MacDonald et al., 2010) (Table 2) includes 20 items on a five-point Likert scale (1 = Poor, 5 = Excellent). The post education survey included repeated items and an additional set of questions exploring their views and perceptions of the education programme (7 items on a five-point Likert scale (strongly disagree = 1, strongly agree = 5) (Table 3). Following the IPE programme and implementation of the SRP patient education trial (4 weeks), individual telephone interviews were conducted with a sample of consenting participants and a representative from hospital management (Table 1), where they elaborated on the IPE and interprofessional collaborative practice strategies used during the SRP trial.

3.6 | Data analysis

3.6.1 | Quantitative data

The demographic make-up of the participants was characterized by simple frequency statistics. Participant responses to Likert scale survey

<table>
<thead>
<tr>
<th>TABLE 1</th>
<th>Participant characteristics and demographics</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Participant characteristics</strong></td>
<td><strong>Number of participants</strong></td>
</tr>
<tr>
<td>Completed pre-education surveys</td>
<td>34</td>
</tr>
<tr>
<td>Registered Nurse</td>
<td>21</td>
</tr>
<tr>
<td>Enrolled Nurse</td>
<td>9</td>
</tr>
<tr>
<td>Physiotherapist</td>
<td>2</td>
</tr>
<tr>
<td>Occupational Therapist</td>
<td>1</td>
</tr>
<tr>
<td>Unknown</td>
<td>1</td>
</tr>
<tr>
<td>Gender</td>
<td></td>
</tr>
<tr>
<td>Female</td>
<td>26</td>
</tr>
<tr>
<td>Male</td>
<td>6</td>
</tr>
<tr>
<td>Unknown</td>
<td>2</td>
</tr>
<tr>
<td>Completed posteducation survey</td>
<td>25</td>
</tr>
<tr>
<td>Interview participants</td>
<td></td>
</tr>
<tr>
<td>Registered Nurse</td>
<td>1</td>
</tr>
<tr>
<td>Enrolled Nurse</td>
<td>3</td>
</tr>
<tr>
<td>Physiotherapist</td>
<td>1</td>
</tr>
<tr>
<td>Assistant Nurse Unit Manager</td>
<td>1</td>
</tr>
<tr>
<td>Executive staff member</td>
<td>1</td>
</tr>
</tbody>
</table>
questions were summarized using basic descriptive statistics (n, mean score, standard deviation and 95% confidence interval). Independent Samples t-tests were used to compare the means. A p-value < .05 was considered to be statistically significant. SPSS (IBM SPSS Statistics for Windows, version 21.0) was used to analyse the data.

### 3.6.2 Qualitative data

Interviews were transcribed verbatim, transferred into Excel and analysed thematically (Braun & Clarke, 2006). One researcher developed initial descriptive themes and subthemes using the relevant aspects...
of the 4P model for IPE design (Kiegaldie, 2021). A second researcher reviewed the initial themes and the two researchers discussed and finalized the framework for analysis. Two components of Presage (Context and Learners) and four components of Process-Education Design (content, teaching approaches, methods of delivery and educational resources) were deemed relevant for evaluating the results.

4 | RESULTS

Table 1 presents participant demographics. Tables 2–4 present the results with pertinent quantitative data integrated into the Presage and Process components of the 4P model. Table 5 outlines the qualitative data according to the themes of Presage and Process and describes participants' views of the education intervention according to enhancing and limiting factors.

4.1 | Presage components: The context

4.1.1 | Relationship with stakeholders

Consultation and Pre-course preparation

Some participants recommended that in the weeks preceding implementation of the intervention, there should be induction and orientation. One participant suggested this could be achieved by regular...
## Table 5 Qualitative themes based on the 3P approach to IPL

<table>
<thead>
<tr>
<th>Themes</th>
<th>Perceptions of learning experience</th>
<th>Limiting factors (suggestions for improvement)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Presage components: The context</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Relationship with stakeholders:</td>
<td>Consultation and pre-course</td>
<td>Longer initial session more beneficial</td>
</tr>
<tr>
<td>Management</td>
<td>preparation</td>
<td>&quot;I think actually [immersing in] the educational task, even a longer interactive session, it’s worth it. Like, you can roster staff on their off days and maybe get them paid two hours just to get it done, if it’s going to - if we know that the evidence is there.&quot; (P2)</td>
</tr>
<tr>
<td><strong>Management support: Time available for education</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Learning environment:</td>
<td>The ability to complete the training online.</td>
<td>Face-to-face delivery to allow full interaction of clinicians.</td>
</tr>
<tr>
<td>Online versus face to face</td>
<td>&quot;Look, doing shift work ... doing the Zoom ones actually worked a lot better, I think. It is something that corona has given to the world is the ability to actually do this, whereas people were resistant to that before.&quot; (P7)</td>
<td>&quot;I think it would have been more valuable as an in-person thing, but that's just because the way that I learn, I like face-to-face learning... I was just sitting in my lounge room, not as engaged as I probably could have been.&quot; (P3)</td>
</tr>
<tr>
<td></td>
<td>Face-to-face training</td>
<td>Accessibility of training followed by interactive face-to-face discussion</td>
</tr>
<tr>
<td></td>
<td>&quot;I mean, all in all, the education was thorough enough that I was able to get what I needed out of it, to then implement it to the best of my ability on the ward.&quot; (P3)</td>
<td>&quot;I would do regular discussion groups, but short. I would have the bulk of the information done online, and then I would have, maybe after they've completed that, a 10, 15 minute discussion, very quick, and then a week or two weeks, another little discussion, how you going, what you going, what can we improve on?&quot; (P5)</td>
</tr>
<tr>
<td>The learners:</td>
<td>Existing intra and interprofessional communication further reinforced</td>
<td>No real change in intra and interprofessional collaboration posttraining</td>
</tr>
<tr>
<td>Interprofessional collaboration</td>
<td>&quot;I think behaviour that helped was everyone being involved. I mean, we were all educated about it, around about the same time, so we all sort of – I guess we were on the same page, which I think was more or less a protective factor in terms of implementing the work.&quot; (P3)</td>
<td>&quot;I didn't have a lot of discussions about this programme, but allied health is always discussing with us nurses about the mobility and falls risk and so forth of the patient. I didn't really have the discussions with them about it. I didn't notice it [change in communication], so I think it's maybe stayed the same.&quot; (P5)</td>
</tr>
<tr>
<td><strong>Process: The Education Programme</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Content: Evidence-based practice</td>
<td>Increased confidence and motivation to implement</td>
<td>Already confident the care given was evidence-based therefore no impact</td>
</tr>
<tr>
<td></td>
<td>&quot;...for me, being able to be involved in something like this, as well as I guess, putting into practice having evidence-based care, as a clinician that's personally important. I think the development of evidence-based care is essential to nursing. I mean, it's the only way we get anywhere really. So, it was good, I suppose, knowing that that's what it was.&quot; (P3)</td>
<td>&quot;I didn't have any concerns about what I was doing in the past, because I was using evidence to the best of my knowledge, so I wasn't using this any more than the things I'd done in the past before.&quot; (P1)</td>
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reminders during ward handover to foster engagement and facilitate assimilation with the new patient education approach.

4.1.2 Management support

Time available for education
Participants agreed that a 1-h session on its own was not long enough and an extended initial education session would have been more beneficial. Additionally, participants perceived that the initial session needed to be followed up with one or more refresher sessions to reinforce the process.

4.1.3 Learning environment

Online versus face to face
Some participants valued the flexibility offered by the opportunity to complete the training online in their home environment. Others who attended online felt face-to-face delivery would have been more valuable and would provide the ability to do more interactive activities such as role-playing. Another participant suggested the videos and PowerPoints should have been accessible online, followed by face-to-face discussions. Others suggested that face-to-face would provide the ability to do more interactive activities such as role-playing.
4.1.4 | The learners

Interprofessional collaboration
There was no statistically significant difference between participants’ views on interprofessional collaboration before and after the education intervention (Table 2). Whilst one participant commented that following the education session existing intraprofessional (within profession) and interprofessional (between professions) communication had been further reinforced, another claimed that there had been no change as they already worked collaboratively.

4.2 | Process components: The education programme

Participants’ views on the education programme are presented in Table 3. Mean scores ranged from 3.71 to 4.04 for questions related to the content of the education (Table 3).

4.2.1 | Content: Evidence-based practice

Mean scores were mostly above 4.00 for participants’ views on evidence-based education for falls prevention (Table 4). The only statistically significant increase ($p < .05$) was participants feeling more prepared to educate patients on falls prevention posteducation. The only question that scored below a mean of 4.00 both pre- and post-education was participants believing they could overcome the barriers to implementing patient education of falls prevention.

One participant reported increased confidence and motivation to implement the intervention knowing that the care they were providing was evidence-based. However, another commented that they were already confident that the care they were giving was evidence-based and therefore the education did not influence their practice.

4.2.2 | Teaching approaches and activities

One participant found the simulation videos demonstrating the intervention to be beneficial. Conversely, another felt that the scenarios needed to be more realistic to the patients they would be delivering the education to, such as demonstrating the intervention applied to patients with, for example hearing difficulties, language barriers, or cognitive barriers.

4.2.3 | Teaching methods

It was recommended that demonstration of the intervention with actual patients on the ward would have been beneficial, providing participants with the opportunity to observe how the education should be delivered. Another suggestion was to make the education session more interactive, for example using a role-play scenario, which would allow participants to practice delivering the script before educating their patients. Some participants felt that a one-off education session was not enough and there should be ongoing support and feedback from clinical leaders on the ward throughout implementation. Others suggested there should be follow-up sessions to allow for further discussion and additional reinforcement of the implementation of the intervention.

4.2.4 | Educational resources

Many participants appreciated the availability and accessibility of cognitive aids on the ward such as the patient education scripts, which served as reminders to conduct the SRP intervention. Others proposed that the videos of the education session be obtainable for access outside of the education session, suggesting that they were not aware that these resources were available.

5 | DISCUSSION

This hospital-based study highlights important factors influencing the implementation of an interprofessional education programme to educate patients on falls prevention. Recommended strategies to overcome barriers are summarized in Figure 2. Application of the 4P model optimized the evaluation and reporting of the education intervention.

5.1 | Presage components: The context

The findings suggest that a pre-requisite for implementing an effective education intervention is building relationships with health professionals and clinical managers (Damschroder et al., 2009). It is essential to continuously build the case for change (McKenzie et al., 2019) and promote the benefits of patient education in falls prevention. Regular and effective communication should be provided throughout implementation to ensure sustained staff engagement and enthusiasm (Sarkies et al., 2017). Leadership engagement has been identified as being essential for implementation of research findings into practice (Damschroder et al., 2009). Other research in falls prevention education identifies the need for clinical leaders to regularly connect with their staff and support them during implementation (Shaw, Kiegaldie, & Morris, 2021). One way of achieving this could be to consider appointing local ward-based champions to disseminate the key messages, assist frontline health professionals with implementation, and act as a point of contact between the health professionals who are delivering the education and the project leaders (Aytton et al., 2017).

Patient education has been found to be the single most important evidence-based strategy for falls prevention (Heng, Jazayeri, et al., 2020; Webster et al., 2021), which demonstrates that healthcare organizations need to place greater value in educating
healthcare professionals to undertake this task. In our study, some participants asserted that the initial education was insufficient in length. Previous research on the implementation of evidence-based guidelines for falls prevention demonstrates that longer training fosters clinicians' confidence increases satisfaction and prepares them to more effectively educate others (Shaw, Kiegaldie, Morris, & Jones, 2021). Additionally, our findings indicated that a one-off education session may not equip staff with the necessary skills to translate knowledge into practice, which accords with other research in falls prevention education (Shaw, Kiegaldie, & Morris, 2021; Shaw, Kiegaldie, Morris, & Jones, 2021). Previous research has found that whilst allied health professionals know the importance of evidence for changing their practice, they often feel ill-equipped or under-supported to implement this (Wenzel et al., 2020). Participants expressed a desire for additional refresher sessions, including consistent discussion on the topic and continual reinforcement. Regular interaction and small group interactive training sessions have been found to be necessary factors in clinical guideline implementation (Fischer et al., 2016).

There were several challenges delivering the IPE both online and concurrent with face-to-face delivery, which may partly explain why those attending via online education felt less engaged. These findings demonstrate the need to deliver the education separately to ensure that each participant is fully engaged and personally involved. This allows for greater responsiveness to participants' learning needs (Shaw, Kiegaldie, & Morris, 2021; Wensing et al., 2020).

Delivering a single education workshop did not result in a statistically significant change in clinicians' views on interprofessional collaboration. This may be due to participants already rating their interprofessional collaboration highly prior to the education. A four-hour interprofessional falls prevention workshop that included interactive strategies and 2 h of individualized team planning, resulted in statistically significant increases in knowledge and confidence in skill performance (McKenzie et al., 2017). This reinforces the value of interprofessional collaboration and suggests a more interactive approach and extended interprofessional education may have further enhanced participants' perceptions of the importance of interprofessional collaboration for falls prevention.

5.2 | Process: The education programme

Our education intervention did not significantly change participants' views on evidence-based practice. This may be because they felt the organization already fostered a culture where the use of evidence was valued, and participants perceived that the care they were delivering was already evidence-based. Evidence-based education programmes for health professionals are critical for providing quality patient care (Lehane et al., 2019; Shaw, Kiegaldie, & Morris, 2021; Shaw, Kiegaldie, Morris, & Jones, 2021). Implementation of evidence-based training in falls prevention has been shown to increase learning and produce practice changes (Shaw, Kiegaldie, Morris, & Jones, 2021).

The use of simulated participants to demonstrate the delivery of the patient education was valued by some participants who felt it improved their knowledge and skills. However, others suggested that to change behaviour, teaching strategies needed to be more interactive with role-playing and feedback. Whilst this type of
delivery is more difficult during the COVID pandemic, it still appears to be the more desired approach amongst clinicians. Tailoring education interventions at the unit level, engaging clinicians in the development process and involving them throughout the process, could assist with achieving behaviour change and a positive attitude towards implementation (Oakman et al., 2021). Active learning methods are more likely to facilitate the development of logical reasoning (Von Colln-Appling & Giuliano, 2017), reflective thinking (Colley et al., 2012) and the effective translation of evidence-based practice (Horntvedt et al., 2018). With more time available for training, teaching strategies such as problem-based learning, group discussions and critical thinking through case-based learning could be employed.

Participants appreciated the availability of resources related to the implementation of the patient education such as laminated signposts and the education script. However, some participants were unaware that recordings of the education session were available for further review. The availability of educational materials such as the audio-visual recording needs to be made more explicit and reminders provided in ward handover. Healthcare professionals also need to have easy access to digital technologies such as tablets onwards to be able to revise the education intervention whenever they required.

6 | CONCLUSION

Educating healthcare professionals to prevent hospital falls is an important activity warranting dedicated time and resources. This study showed that a single education session is not enough for lasting changes in health professional knowledge and patient falls prevention behaviours. The implementation sciences literature, coupled with these findings, reinforce the need for co-production of falls education, involving the patient and interprofessional team. Developing and evaluating health professional education programmes using the 4P model of education design, ensures all elements of the teaching context, student approaches to learning and the outcomes of learning are considered.

AUTHOR CONTRIBUTIONS

Louise Shaw: Conceptualization, methodology, validation, formal analysis, investigation, resources, data curation, writing—original draft, and writing—review and editing. Debra Kiegaldie: Conceptualization, methodology, validation, formal analysis, investigation, resources, and writing—review and editing. Hazel Heng: Conceptualization, writing—reviewing and editing. Meg E. Morris: Funding acquisition, project administration, and writing—review and editing, supervision.

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CONFlict of Interest

The authors declare that they have no competing interests. The authors alone are responsible for the content and writing of this paper.

DATA availability STATEMENT

Data from the study are available from the corresponding author on reasonable request.

ETHICS STATEMENT

Research Ethics Committee approval was obtained from La Trobe University’s Health and Engineering College Human Ethics Sub-Committee (HEC21023).

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REFERENCES

a systematic review and meta-analysis of interventions to reduce falls rates and risk.


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Additional supporting information may be found in the online version of the article at the publisher’s website.