Original Article

Evaluating the impact of operating a falls prevention community of practice on falls in a residential aged care setting

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Abstract

**Background/Purpose:** Falls are a leading adverse event in residential aged care (RAC) settings with prevention a global aim. The purpose of this study was to determine whether operating a falls prevention community of practice (CoP) delivering evidence-based prevention interventions could change the rate of falls and injurious falls in a RAC setting.

**Methods:** A prospective quasi-experimental pre/post design was conducted. Participants were 13 RAC sites (779 beds) of a single RAC organization, with 20 multidisciplinary staff volunteering as CoP members.

**Results:** Falls rates pre CoP were 10.1/1,000 occupied bed days (OBD) compared with 10.9/1,000 OBD post CoP operation [coefficient 0.7, 95% CI -33.5, 34.9 (p=0.967)]. This was confounded by identified differences and changes in defining falls between sites. The rate of injurious falls resulting in fractures pre CoP was 0.2/1,000 OBD compared with 0.1/1,000 OBD post CoP; [coefficient -0.3, 95% CI -1.1, 0.4 (p=0.423)].

**Conclusion:** A falls prevention CoP operating for 18 months was unable to reduce falls rates in that time frame but there was a trend to a reduction in falls resulting in fracture. Additional time for implementation and evaluation of falls prevention interventions will be required in complex settings, such as RAC organizations, in the absence of additional funding. Valid comparisons of falls rates and injurious falls rates within the RAC population require the adoption of standardized definitions to improve reporting reliability.

INTRODUCTION

Falls are a leading adverse event in the residential aged care (RAC) sector with reported rates ranging between 3-13 falls per 1,000 occupied bed days (OBD).¹,² High prevalence of disability (81.3%) and cognitive impairment (68%)³ put this vulnerable population at high risk of falls with 50% of residents sustaining a fall within the first year of admission and 25-30% sustaining a physical injury.⁴ Australian data demonstrate that approximately 27% of all hospital admissions for falls related injury for people aged 65 years and over were coded as being from RAC facilities,⁵ even though older people living...
in RAC comprise only 6% of the total older population. The consequences of falls have a negative impact on the RAC sector at a number of levels: for the older person physical and psychological trauma can result in loss of independence and confidence that impact their quality of life, for RAC facilities the additional burden of care has to be accommodated and at the health care systems level there is the financial burden with cost of a single fall in RAC conservatively estimated at $1,887 Australian dollars (AUD). A limited number of studies have addressed falls prevention in the RAC population with two meta analyses presenting different key findings; the first meta-analysis of five trials found that a single intervention of supple

Falls prevention guidelines and falls researchers recommend that RAC facilities implement multifactorial interventions, which should be translated into practice by a multidisciplinary team, to improve falls outcomes. Australian falls prevention guidelines suggest that this involves organizations examining their practice and implementing targeted interventions according to gaps identified. Additionally findings from a critical literature review by Quigley et al proposed that the testing of future research models include falls and falls injury prevention interventions delivered at the organization, unit (facility) and resident levels. One model with the capacity to bring organizational staff together in a manner that can facilitate changes at multiple levels is a community of practice (CoP) that can facilitate changes at multiple levels. CoPs also have the capacity to be sustainable as they allow diversification of membership and expertise, thus enabling multifactorial problems, such as falls, to be addressed from a range of perspectives and solutions actioned, especially where executing multi level changes is likely to take considerable time. To our knowledge there are no studies examining the impact of a community of practice on falls prevention outcomes across a RAC organization. Our study aimed to investigate the impact of a falls prevention CoP, acting at multiple levels of a RAC organization on falls rates and injurious falls (resulting in fracture) rates.

METHODS

Design

A prospective quasi-experimental pre-post design was undertaken. This study formed part of a larger project that aimed to evaluate the impact of a falls prevention CoP at organization, facility and membership levels. The larger mixed methods study collected qualitative and quantitative data and used a realist approach. Briefly, realist evaluations are utilized in healthcare particularly for complex issues, such as those in RAC settings, where an in depth understanding of how and why intervention outcomes occur is required. The protocol for the larger study is described in full elsewhere. Participants and setting

A 779 bed RAC provider organization with 13 geographically diverse RAC sites designated as providing general aged care and respite care participated. All sites were led by a care manager and include nursing and allied health staff that provided care in a home-like environment. General aged care services included 24 hour resident supervision, assistance with activities of daily living, medication management, meals, laundry and cleaning. Residents’ diagnostic profiles included common conditions such as stroke, Parkinson’s disease and heart disease. Respite care offered short term general aged care services to relieve carer burden for older people being cared for in the community. Two of these sites provided transition care, which is a short stay service designed to facilitate the transition of an older person from the acute care sector to community settings. Four sites also provided care for residents with complex disabilities, such as those with dementia exhibiting high levels of behavioral and psychological symptoms, Huntington’s disease and older residents with acquired brain injury. The RAC organization employed approximately 1,185 full and part time care staff.

Intervention

A falls prevention CoP was established, piloted and then operationalized across the RAC organization. The falls prevention CoP was considered an intervention at organization level as it acted across all 13 RAC sites. Findings from the pilot study facilitated CoP operationalization and activity across the sites. For example, a key barrier identified was lower levels of staff capability using ICT; this was facilitated by staff training to enable web-based falls prevention discussion to take place amongst the membership. Members of the CoP (n=20) who were volunteers from the RAC staff represented all 13 sites. Briefly, a CoP is a group of people who have a common interest and convene regularly to share their ideas, problem solve and collaborate to achieve negotiated goals, in this case falls prevention. The CoP met face to face three to four times annually; interacted in 11 web-based discussion forums supported by frequent email contact, to lead falls prevention audits and intervention implementation at their RAC sites. Previous studies in healthcare have identified that CoPs can be an effective means of facilitating practice change through sharing ideas including successes and failures. This may enable them to prioritize what and how falls prevention interventions should be actioned to effect change. All 13 RAC sites (100%) completed a falls prevention activity
audit. Falls prevention activities prioritized by the CoP from audit findings, which were all directed towards translating falls prevention evidence into practice, included writing a falls prevention policy, re-designing falls risk assessments (implemented at organization level), improving the proportion of residents supplemented with vitamin D at all 13 sites (100%), and designing falls prevention education (8 sites [70%] participated) have been described and evaluated elsewhere.20

Outcome measures

The outcome measures prospectively defined were resident rate of falls per 1,000 occupied bed days, resident rate of injurious falls resulting in fracture per 1,000 occupied bed days and the proportion of residents who fell one or more times during the study observation period. These outcomes are recommended for use in falls research21 by falls research guidelines.22 Occupied bed days (calculated using the facility census) represented the denominator and number of falls the numerator multiplied by 1,000.

A fall was defined by the researchers as any event recorded in the electronic clinical incident report as a fall and all falls recorded in the electronic system during the study observation period were included in the falls outcome data set. The organization had no pre-determined fall definition in their policy, but all sites were instructed to report falls into the electronic system.

The organization had no organization wide injurious fall classification. An injurious fall was defined as an event recorded in the electronic clinical incident report categorized as resulting in a fracture or sentinel event. All injurious falls resulting in fractures were also recorded in a separate section of the clinical incident reporting system, as they all resulted in the resident being transferred to hospital.

A person who fell was defined as a resident who was recorded in the organization’s electronic clinical incident report system as sustaining one or more falls during the study observation period of three years. Electronic falls data records from each RAC site were combined at organizational level.

Procedure

The study periods in establishing and operating the CoP are shown in Table one, each period lasted six months. The control period of the study, period one and two, provided 12 months data prior to the CoP becoming operational. During period three the CoP met via web-based discussion forums supported by face to face meetings to plan and conduct a falls prevention audit identifying gaps in practice.20 In periods four, five and six the CoP developed and implemented falls prevention activities, where the CoP determined the timing and type of interventions that occurred (Table 1).

Statistical analysis

The demographic characteristics of the 13 RAC sites and of the residents present at any site during one or more of the six periods of the study were summarized using descriptive statistics. The proportion of residents who fell during the study was calculated by finding the percentage of residents who fell one or more times, out of the total number of residents present for one or more days at any facility. The falls rates and fracture rates for each period of the study were calculated by dividing the number of falls or fractures during each period of the study by the number of occupied bed days for that period. Site rates of falls were also calculated using the same approach.

Mixed-effects, multilevel, linear regression using site as a random effect and pre vs post intervention periods as a fixed effect was used to compare the rates of falls between these periods. One summative data point for each outcome was considered for each site-period time point in these analyses. A Gaussian distribution was employed for these analyses as the summative falls data of this nature reflected a normal

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Table 1. Periods of the trial and the establishment of the falls prevention community of practice

<table>
<thead>
<tr>
<th>Six monthly measurement periods</th>
<th>CoP activity at RAC site level</th>
<th>CoP activity at RAC organizational level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 (Jan 2013 - Jun 2013)</td>
<td>Pre CoP establishment</td>
<td>Pre CoP establishment</td>
</tr>
<tr>
<td>3 (Jan 2014 - Jun 2014)</td>
<td>Differences in falls reporting across sites identified. Interventions planned as priority implementation (post audit)</td>
<td>CoP official launch and commencement of operation</td>
</tr>
<tr>
<td>4 (Jul 2014 - Dec 2014)</td>
<td>Vitamin D supplementation promoted, care staff and residents surveyed re falls prevention education needs</td>
<td>Clarifying what constitutes a fall, definition implemented. New falls policy and risk assessment discussed with stakeholder groups. CoP educational newsletter implemented</td>
</tr>
<tr>
<td>5 (Jan 2015 - Jun 2015)</td>
<td>Revised risk assessment (with aligned management plan) piloted. Staff and resident falls prevention poster checklist developed</td>
<td>New falls prevention policy and risk assessment (with aligned management plan) iteratively drafted</td>
</tr>
</tbody>
</table>
distribution rather than the negative binomial distribution conventionally used in patient-level analyses. The pre-intervention period was considered to include periods one and two, while the post-intervention period included periods four, five and six. Period three falls data were not included in these analyses as they were treated as a wash in effect period. All analyses were adjusted for mean age of residents present at each site during each period and the proportion of residents present at each site during each period with cognitive impairment as fixed effects. Results were presented using coefficients and 95% confidence intervals with an alpha of <0.05 considered significant.

We further explored a site-by-intervention interaction effect to examine possible treatment effect heterogeneity. The effect of the intervention at each site was examined individually by including a site (random) by intervention (fixed) interaction effect in the analyses. We then extracted the best linear unbiased predictor of this effect at each site and presented these with 90% confidence intervals given the reduced statistical power of interaction effects. All statistical analyses were completed using Stata 14 (Stata SES Texas).

Protocol amendments

It was planned to adjust analyses for residents’ level of care as classified by the Australian Government aged-care funding instrument (ACFI) care rating, however this adjustment was not completed. This measure did not remain stable during the periods of the study, as residents were re-classified more than once and within each resident care rating multiple individual changes to some items meant that the overall classification changed during more than one period of the study. We did not pursue analyses investigating the impact of the intervention on the percentage of residents who had a fall during each time period. This was because of variation in the number of beds being allocated to transitional or respite care over the follow-up. An increase in these beds accompanied by rapid turn-over of residents using them increases the denominator when examining the percentage of residents who fall, giving the appearance of a decrease in this outcome. So we instead focused analyses on the rate of falls per 1,000 occupied beds days that is not affected by these changes in the same way.

Ethical considerations

Ethical approval for the study was obtained from the University of Notre Dame Human Research Ethics Committee (reference number 013145F). The board of the RAC organization also approved the study. All CoP members/staff provided written consent to participate.

RESULTS

There were 3,819 admissions during the study period of which 3,015 were unique admissions and 804 were multiple admissions. The mean age of residents on admission across all sites was 80.8 years (SD 10.4), 1,293 (42.9%) were male and 1,708 (56.7%) were female (gender data were missing for 14 residents). The mean LOS was 433.2 days (SD, 830.5 days) while the median length of stay (LOS) was 57 days (IQR 19-387). The demographic characteristics of the residents by site and of the sites is presented in Table 2.

There were 10,763 falls and 137 fractures across all 13 RAC sites during the three years (control and intervention periods) of the study. There were 1,432 (47.5%) residents who fell during the study period. Of those, 476 (33.2%) sustained a single fall whilst 956 (66.8%) had more than one fall (range 2-193 falls). Two hundred and fourteen residents sustained two falls, 142 sustained three falls, 101 sustained four falls, 378 sustained between 5-18 falls and 121 residents sustained between 19-193 falls. Falls outcomes are presented in Table 3 and falls rates across all 13 RAC sites over each period are presented in Figure 1.

There was no significant difference in either rates of falls or

<table>
<thead>
<tr>
<th>Site</th>
<th>Number of beds</th>
<th>Admission type, n= 3,819</th>
<th>Proportion of residents with cognitive impairment (%)</th>
<th>Mean age (years)</th>
<th>LOS, median (range)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>60</td>
<td>GAC* 79 TC* 548 RC* 10</td>
<td>56.9</td>
<td>81.3</td>
<td>41 (1-5,421)</td>
</tr>
<tr>
<td>2</td>
<td>33</td>
<td>GAC* 50 RC* 85</td>
<td>50.5</td>
<td>85.9</td>
<td>14 (1-3,575)</td>
</tr>
<tr>
<td>3</td>
<td>30</td>
<td>GAC* 50 RC* 1</td>
<td>61.2</td>
<td>82.4</td>
<td>1124 (4-4,429)</td>
</tr>
<tr>
<td>4</td>
<td>20</td>
<td>GAC* 35 RC* 2</td>
<td>58.3</td>
<td>86.9</td>
<td>957 (25-5,430)</td>
</tr>
<tr>
<td>5</td>
<td>64</td>
<td>GAC* 40 TC* 1251 RC* 54</td>
<td>58.7</td>
<td>81.8</td>
<td>41 (1-3,318)</td>
</tr>
<tr>
<td>6</td>
<td>110</td>
<td>GAC* 237 RC* 165</td>
<td>62.6</td>
<td>81.8</td>
<td>132 (3-4,199)</td>
</tr>
<tr>
<td>7</td>
<td>62</td>
<td>GAC* 117 RC* 69</td>
<td>59.6</td>
<td>74.6</td>
<td>207 (1-7,176)</td>
</tr>
<tr>
<td>8</td>
<td>61</td>
<td>GAC* 120 RC* 10</td>
<td>72.6</td>
<td>74.8</td>
<td>579 (2-5,869)</td>
</tr>
<tr>
<td>9</td>
<td>50</td>
<td>GAC* 97</td>
<td>83.9</td>
<td>78.7</td>
<td>834 (14-5,862)</td>
</tr>
<tr>
<td>10</td>
<td>30</td>
<td>GAC* 51 RC* 2</td>
<td>67.3</td>
<td>77.0</td>
<td>1109 (1-4,392)</td>
</tr>
<tr>
<td>11</td>
<td>131</td>
<td>GAC* 278 RC* 92</td>
<td>66.7</td>
<td>82.0</td>
<td>360 (1-3,768)</td>
</tr>
<tr>
<td>12</td>
<td>61</td>
<td>GAC* 119 RC* 71</td>
<td>81.4</td>
<td>74.8</td>
<td>162.5 (1-5,645)</td>
</tr>
<tr>
<td>13</td>
<td>65</td>
<td>GAC* 119 RC* 67</td>
<td>98.9</td>
<td>75.7</td>
<td>335 (1-4,439)</td>
</tr>
</tbody>
</table>

*aGAC=General aged care; *LOS=Length of stay; *RC=Respite care; *TC=Transition care.
fractures after the commencement of the CoP compared to the year prior to commencement, as shown in Table 4.

The site level effect estimates demonstrated there were no significant differences in the falls rates across the different sites. The best linear unbiased predictors for each site are presented in Figure 2.

Visual inspection of these indicated the intervention may have been more effective at site 11, but this was not significant given the width of the 90% CIs.

In regard to the injurious falls data, for the first five periods of the study only falls that resulted in a fracture (121 [1.3%]) were required to be recorded as injurious. This meant 8,887 (98.1%) falls were not classified as to whether they resulted in injury. At the commencement of study period six, the RAC organization changed its reporting requirements, so the 13 RAC sites had to classify falls according to the level of injury sustained. During period six 288 (16.9%) falls were classified as requiring minor first aid, 172 (10.1%) as causing moderate injury and 16 (0.9%) as resulting in a fracture. No adverse events regarding the actions of the CoP were reported by the organization during the conduction of the study.

After the study we conducted a post hoc power analysis which indicated that we had only 10% power to detect the small standardized effect size (of 0.20) observed. Such a small effect brings the economic efficiency of this approach into question, and also indicates that we would have needed to conduct this study over a substantially greater number of sites in order to find this magnitude of effect as being statistically significant. However the time and resources required to conduct this study meant we were unable to enroll any more organizations for the purposes of our study.

**DISCUSSION**

The overall falls rate reported in our study

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### Table 3. Falls outcomes pre and post operationalization of the CoP

<table>
<thead>
<tr>
<th>Site</th>
<th>Periods pre CoP - post CoP</th>
<th>Falls, n=107,63</th>
<th>Fractures, n=137</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1-3 4-6</td>
<td>188 283</td>
<td>2 5</td>
</tr>
<tr>
<td>2</td>
<td>1-3 4-6</td>
<td>84 122</td>
<td>4 4</td>
</tr>
<tr>
<td>3</td>
<td>1-3 4-6</td>
<td>120 86</td>
<td>1 4</td>
</tr>
<tr>
<td>4</td>
<td>1-3 4-6</td>
<td>58 63</td>
<td>1 1</td>
</tr>
<tr>
<td>5</td>
<td>1-3 4-6</td>
<td>476 538</td>
<td>12 4</td>
</tr>
<tr>
<td>6</td>
<td>1-3 4-6</td>
<td>848 577</td>
<td>18 5</td>
</tr>
<tr>
<td>7</td>
<td>1-3 4-6</td>
<td>184 436</td>
<td>1 4</td>
</tr>
<tr>
<td>8</td>
<td>1-3 4-6</td>
<td>253 287</td>
<td>4 2</td>
</tr>
<tr>
<td>9</td>
<td>1-3 4-6</td>
<td>184 206</td>
<td>5 2</td>
</tr>
<tr>
<td>10</td>
<td>1-3 4-6</td>
<td>143 139</td>
<td>8 1</td>
</tr>
<tr>
<td>11</td>
<td>1-3 4-6</td>
<td>1,853 1,187</td>
<td>6 13</td>
</tr>
<tr>
<td>12</td>
<td>1-3 4-6</td>
<td>430 526</td>
<td>5 5</td>
</tr>
<tr>
<td>13</td>
<td>1-3 4-6</td>
<td>734 778</td>
<td>11 9</td>
</tr>
</tbody>
</table>

### Table 4. Comparison of falls outcomes pre and post operationalization of the CoP

<table>
<thead>
<tr>
<th>Coefficient , (95% CI), p value</th>
<th>Falls rates, Pre CoP/ post CoP, falls/1,000 bed days*</th>
<th>Fracture rates, Pre CoP/ post CoP, falls/1,000 bed days*</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.1 / 10.9 0.7, (-33.4, 34.9), 0.967</td>
<td>0.2 / 0.1 -0.3, (-1.1, 0.4), 0.423</td>
<td></td>
</tr>
</tbody>
</table>

*All analyses adjusted for age and presence of cognitive impairment; *Comparing periods one and two with periods four, five and six.
longer term follow up. Additionally, as CoP members (staff) on falls outcomes is likely not fully evident and requires interventions in the short term hence the true impact the ability of the CoP to deliver more multifactorial interventions at multiple levels our falls rates trended upwards. Multifactorial interventions at multiple levels our falls rates commencing operation. Like similar studies delivering multifactorial interventions at multiple levels our falls rates trended upwards. Our study showed rapid increases in the number of falls at sites one and five, this heterogeneity may be explained by the fact that they had converted to provide transition care services shortly before our study commenced. Transition care services have a maximum stay of 12 weeks with an average stay of seven weeks and hence these sites had considerably more admissions of older people not yet functionally recovered from acute care settings compared with any other sites. Our study also showed a trend towards a reduction in injurious falls resulting in fracture as reported in a similar study by Becker et al., but as the overall number of fractures was small it is likely to have been similarly underpowered to show a significant difference. As the RAC organization is now classifying four levels of injurious falls amalgamating them may provide larger sample sizes for future comparison.

We previously identified gaps in falls prevention policy, protocols and practice for CoP attention. However the pre-specified periods for CoP activity were found to be inadequate due to the unexpected need to extensively develop falls prevention policy and protocols prior to implementing interventions. A study reporting the potential of CoPs in nursing homes suggests allowing six months for implementation of an intervention but when development of an evidence-based protocol, such as falls prevention, is required a period of 18-36 months is necessary, which we found to be the case in our study. A similar study in RAC where staff were participants in the process of implementing evidence-based interventions delivered the same finding that longer follow up was required. This extensive time requirement limited the ability of the CoP to deliver more multifactorial interventions in the short term hence the true impact on falls outcomes is likely not fully evident and requires longer term follow up. Additionally, as CoP members (staff) had autonomy prioritizing falls prevention activity at their sites implementation impact was less uniform, as reported by a study similarly involving RAC staff in the research process. Our falls reporting changed during the study, as reporting varied between RAC sites prior to the implementation of an organization wide fall definition, with periods five and six showing the more uniform effect of standardized reporting on falls rates. A large proportion of falls were not classified as to whether they resulted in injury other than fracture until period six. Consistency in reporting falls is important, particularly for RAC organizations choosing to make reliable site comparisons to learn from each other’s practices.

**Implications**

As the RAC population continues to age and thus potentially acquire increased falls risk factors, a more realistic evaluation may be to focus on delivering a trend in fall reduction and injurious falls reduction, particularly fractures, as these are also more robustly measured, as suggested by other studies.

Additional time for implementation and evaluation of falls prevention interventions will be required in complex settings such as RAC organizations. Sustainable models with flexibility are required to provide long term focus and follow up, as the constrained nature of the sector means that favorable outcomes delivered by external assistance, enabled through short term funding sources, is not able to be sustained. We feel an operationalized CoP could offer a sustainable internal option for delivering falls prevention interventions but more time investment is required, so falls outcomes can continue to be measured.

In the absence of a RAC industry wide adoption of a standardized fall definition and injury classification the accuracy of comparing injurious falls rates and injurious fall rates across the sector remains a challenge.

**Strengths and Limitations**

This study used a quasi-experimental pre-post design to accommodate 13 RAC sites that were pre-existing populations all doing some falls prevention interventions prior to the study commencing. Whilst this design does not have the rigor for generalization provided by the gold standard randomized controlled trial we, like Burland et al., felt this design provided a clear indication of intervention outcomes under “real world” conditions that are likely to be similar in other RAC settings.

We underestimated the requirement for long term follow up on falls outcomes (falls rates injurious falls rates). However it was difficult to plan for this prior to ascertaining the results of falls prevention site audits conducted following the

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**Figure 2.** Best linear unbiased predictors for each site

![Best linear unbiased predictors for each site](image-url)
Changes in falls reporting during the trial is likely to have confounded fall rates as staff’s clinical understanding of what constitutes a fall is likely to have influenced what events were actually recorded as falls. However the adoption of standardized falls reporting and classification is likely to rectify this in the longer term.

A falls prevention CoP delivering evidence based falls prevention interventions across 13 RAC sites was unable to reduce falls rates after 18 months in operation although a reduction in the number of injurious falls resulting in fracture was observed. We were limited in our ability to gather more detailed resident level data, such as medication profiles, within the context of this study but plan to do so in future CoP activities. Measuring the effects of complex interventions in RAC settings when policy and protocols need development requires more time investment. However the falls prevention CoP was established as a potentially sustainable way of actioning and evaluating falls prevention activity and will continue to measure falls outcomes into the future.

CONFLICTS OF INTEREST STATEMENT

The authors declared no potential conflicts of interest with respect to the research, authorship, and/or publication of this article.

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