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Is it my job? The role of RNs in the assessment and identification of delirium in hospitalized older adults: an exploratory qualitative study

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Is it my job? The role of RNs in the assessment and identification of delirium in hospitalized older adults: an exploratory qualitative study

Abstract

Delirium is characterized by acute and fluctuating cognitive decline, which is often missed in older adults who are assumed to be experiencing age-related changes or dementia. Delirium affects up to 50% of hospitalized older adults. The aim of the current study was to (a) explore current practices of RNs in assessing and identifying delirium in hospitalized older adults and (b) inform new educational initiatives. Qualitative methods were adopted using eight semi-structured group interviews with 24 RNs. Thematic analysis revealed a dichotomy in practice where RNs described delirium assessment and identification as (a) *It's Not My Job*, (b) *It is My Job*, and (c) *It's Complex*. The imperative to improve delirium assessment and identification to create safer and more caring health care environments means the current findings provide important evidence to build into practice and education strategies. The current authors have developed engaging educational interventions and begun implementation at the study site to develop delirium assessment and identification capacity, which moves clinicians beyond awareness and aims at practice adherence or the consistent application of evidence-based delirium assessment.

Keywords

study, qualitative, older, delirium, role, exploratory, my, job?, identification, hospitalized, rns, adults:, assessment

Disciplines

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1 **Is it my Job? The role of registered nurses in the recognition of** 2 **delirium in older people in hospital: An exploratory qualitative study.** 3

4 **Abstract**

5 Delirium is characterised by acute and fluctuating cognitive decline which is missed in older people
6 who are assumed to be experiencing age related changes or dementia. Delirium affects up to 50% of
7 older people admitted to hospital. The aim of this study was to explore current practices of
8 registered nurses in assessing and identifying delirium in older people in hospital and inform new
9 educational initiatives. Qualitative methods were adopted using semi-structured group interviews
10 (n=8) with registered nurses (n=24) the thematic analysis revealed a dichotomy in practice where
11 registered nurses described delirium assessment and identification as 1) It's not my job; 2) It is my
12 job; and, 3) It's complex. The imperative to improve delirium recognition to create safer and more
13 caring healthcare environments means the findings from this study provide important evidence to
14 build into practice and education strategies. The authors have developed engaging educational
15 interventions and have begun implementation at the site of this study, to develop delirium
16 recognition capacity which moves clinicians beyond awareness and aims at practice adherence, that
17 is the consistent application of evidence based delirium assessment.

18 **Introduction**

19 **Delirium**

20 Delirium affects up to 50% of older people admitted to hospital, it is frightening and associated with
21 a range of adverse outcomes yet continues to be undetected in 32-66% of people (Maclulich et al.
22 2013; Schofield et al. 2011). Delirium is characterised by acute and fluctuating cognitive decline
23 which is missed in older people who are assumed to be experiencing age related changes or
24 dementia (Flaherty 2011; Grover & Shah 2011). The discomfort caused by delirium, while most
25 keenly felt by the older person extends to their families and the healthcare team, likely affecting the
26 care they provide (McDonnell & Timmins 2012). Delirium is preventable in at least one-third of

1 older people reflecting real opportunity for improvement (Maclulich et al. 2013). Clinical practice
2 and research demonstrate that registered nurses are effective in identifying individuals in their care
3 who are confused but they do not use assessment tools to determine the presence of delirium (Hare
4 et al. 2008; Steis & Fick 2012). Registered nurses have a 24- hour bedside role placing them in a
5 position to take the lead in delirium recognition and thereby reduce the poor outcomes older people
6 experience in healthcare settings (Irving et al. 2006).

7 **International and national context**

8 Interest in delirium is growing with policy development, research, educational interventions and the
9 launch of specialist professional groups (Maclulich et al. 2013). In Australia, the delirium clinical
10 practice guideline and care pathways were published (DOHA 2006, 2011) and there is now an
11 Australasian Delirium Association. To promote improved care for people with cognitive impairment
12 in hospital the Australian Commission on Safety and Quality in Healthcare has launched a campaign
13 seeking professional and community commitment, offering supportive resources and guidance
14 through revised healthcare standards which reflect the importance of delirium care (ACSQHC 2014).
15 Within New South Wales, Australia, the NSW Ministry of Health funded Dementia/Delirium Clinical
16 Nurse Consultant (CNC) positions, clinical leaders across community and acute care settings (known
17 as Local Health Districts). The first author (MC) is a district CNC in Delirium and Dementia and this
18 study was designed to inform this role.

19 **What happens in practice**

20 The experience in clinical practice is reflected in literature. Nursing reports may include the
21 fluctuating cognitive levels and confusion of an older person but without evidence from validated
22 delirium assessment tools (Hussein & Hirst 2016; Hare et al. 2008; Steis & Fick 2012). Concerned
23 with improving delirium recognition in clinical practice this research enquiry began with the aim to
24 describe just how registered nurses who did recognise delirium in older people in their care did it.

1 **Methods**

2 A qualitative descriptive approach was used to generate understanding about the practices of
3 registered nurses in recognising, assessing and identifying delirium (O'Leary 2010).

4 **Setting and sample**

5 The study was undertaken with staff from a Local Health District located in the state of New South
6 Wales (NSW), Australia. The main hospital is a large regional emergency and trauma centre which
7 includes specialist aged-care and general wards where older people are admitted for medical
8 investigations, treatment and surgical procedures. A flyer promoting participation in the study was
9 distributed to wards where registered nurses cared for older people. In addition, the flyer was
10 emailed to the Director of Nursing, Nurse Unit Managers, and Clinical Nurse Educators working in
11 the participating hospital. The flyer explicitly stated that volunteers with experience of recognising
12 delirium were sought to participate in a group interview. Participant Information Sheets were issued
13 and Consent Forms were completed prior to the commencement of each group interview.

14
15 This recruitment strategy resulted in a purposive sample of registered nurses with experience of
16 recognising delirium. Registered nurses working solely in intensive care and drug and alcohol care
17 settings were excluded from this study. All participants self-identified as having prior experience in
18 recognising delirium in older people. The study was approved by the University and Local Health
19 District's Health and Medical, Human Research Ethics Committee and access to the study site was
20 approved by the Local Health District.

21 **Data collection**

22 Semi-structured interviews were undertaken by the principal investigator using a prompt guide
23 developed by the research team, piloted in the clinical area and amended to include the findings
24 from the pilot exercise. The group interviews lasting an average of one hour were undertaken over
25 two months and recorded using an audio digital recorder. Prior to each interview demographic data
26 were obtained by questionnaire; this included gender, years of nursing experience, aged-care

1 experience and education. A professional transcriber transcribed the interviews verbatim. All data
2 were anonymised. Numerical codes were allocated to each participant and each group interview,
3 for example, RN003:IV5:P3:L15 refers to Participant 003, Interview 5, page 3 and line 15.

4 **Data analysis**

5 Extraneous material was excluded from the data, leaving only material important to the research
6 question for analysis (Hickson 2008). Data collection and analysis occurred concurrently. Thematic
7 analysis was used to generate understanding about how registered nurses recognise, assess and
8 identify delirium (Koch 2006). A template was adapted for reading and reviewing the data to guide
9 analysis and demonstrated rigor in the process. The template enabled a systematic means for data
10 analysis and formed part of an audit trail able to be verified by others (DePoy & Gitlin 2011; O'Leary
11 2010). A mind map was used to guide the generation of themes and to identify linkages. Adoption
12 of these techniques built interconnectedness and meaning to the raw data (Burnard 1991; O'Leary
13 2010).

14 To ensure methodological rigour, thematic analysis was reviewed by three other researchers.
15 Throughout the data analysis phase the research team met to ensure the finding was credible and
16 generated from the transcripts of the interview data. Amendments to the themes occurred as the
17 in-depth interrogation of the raw data was undertaken (Burnard 1991; O'Leary 2010).

18 **Results**

19 A total of eight group interviews were undertaken consisting of 3 to 7 registered nurses (n= 24).
20 Most participants worked at the large hospital where the study was undertaken (83%). The
21 participants came from a range of hospital units, including emergency, renal, aged-care and medical
22 specialities. The majority of participants (67%) had more than 10 years' experience as registered
23 nurses, over half (58%) had specialist aged-care roles, clinical nurse specialists (CNSs), clinical nurse
24 educators (CNEs) and clinical nurse consultants (CNCs) and over one third (37%) had post-graduate
25 qualifications. Thematic analysis of the interview transcripts generated three themes: 1. It's Not My
26 Job, 2. It Is My Job, 3. It's Complex.

1 **Theme 1: It's Not My Job**

2 This theme explores how participants viewed their own role in delirium recognition compared with
3 others in the healthcare team. These responses are organised into four sub-themes: 'It's not my role
4 here'; 'It's their job'; 'Maybe if I had training?'; and 'lack of organisational supports,' reflecting the
5 concern of overstepping specialist and discipline boundaries without organisational enablement or
6 the confidence of having received specific education.

7 **It's not my role here**

8 Although participants had some experience in using cognitive assessment tools it was perceived that
9 there was not an expectation to expressly assess and identify delirium.

10 *"...I probably have a few times in the past done a bit of a Mini Mental with*
11 *somebody who was obviously really confused but it's never sort of been*
12 *perceived as my role....."* (RN20:IV6:P9:L12)

13 **It's their job**

14 Participants explained that cognitive assessment was formally attended by allied health staff
15 (Occupational Therapists) in this hospital and, on occasion, the medical staff or specialist aged care
16 nurses, supporting their belief it was not their role.

17 *"....so it's more something (Aged Services) do than what we do."*
18 (RN23:IV7:P6:L7)

19 The aged care specialists were also viewed as having the time to appropriately assess the older
20 person in hospital.

21 *"They love that stuff and that's their niche... So they see it every day. Like we*
22 *see it every day but, they have the time...."* (RN24:IV8:P5:L18)

23 **Maybe if I had training?**

24 Participants reported that they wanted more support from their employing organisation in the form
25 of training and resources to implement evidence based recognition of delirium. The perception that

1 recognition of delirium was not part of their job was further verified by the lack of mandatory
2 training or workplace education on delirium.

3 *“... It’s really only been....’cos of my own interest, that I’ve been able to*
4 *increase my own knowledge on delirium.” (RN8:IV3:P18:L5)*

5 Apart from specialist aged care nurses, there was little knowledge of evidence-based tools for
6 delirium assessment and identification, such as the Confusion Assessment Method (CAM). The CAM
7 was described as a tool which was useful for validating the participants concerns about the possible
8 presence of delirium. Drawing on their previous experience of caring for older people with delirium
9 was emphasised over the assessment outcomes of the CAM.

10 *“It’s (the CAM) an indicator. It’s a good thing to take to the geriatrician..... it’s*
11 *more the whole picture when you’re assessing..” (RN1:IV1:P7-8:L14)*

12 **Lack of organisational supports**

13 Linked with the perceived lack of opportunity for training within the organisation, participants
14 introduced concerns about a lack of supportive processes and resources for recognising, assessing
15 and identifying delirium. Validated delirium screening and assessment tools were not readily
16 available, nor was there ready access to, or knowledge of the delirium care clinical pathways.

17 *“The wards aren’t using any sort of delirium assessment tool because they*
18 *haven’t got any ...” (RN2:IV1:P7:L5)*

19 *“.....you don’t necessarily always have the chance to.....do everything that you*
20 *would want to for the patientyou’re flat-out from the beginning of the shift*
21 *to the end..” (RN21:IV6:P19:L19)*

23 **Theme 2: It is My Job**

24 This theme explored the perception of participants about their role in the recognition of delirium
25 amongst older people in hospital. Participant responses were framed by an understanding of
26 registered nurse responsibilities, generating three sub-themes: ‘I do general observations’; ‘I gather

1 information'; and 'We describe what we see'. This emphasised the nursing role in delirium
2 recognition as monitoring vital signs and observing the physiological and behavioural changes older
3 people display. A range of barriers in the recognition of delirium were discovered; predominately
4 time and opportunity.

5 **I do general observations**

6 Apart from aged care specialists only one participant included reporting cognitive changes in their
7 assessment for delirium. Participants understood their role to be pivotal in ensuring general
8 observations were used to capture evidence of physical disease.

9 *"..., checking the vital signs, temperatures, and we do things like urine*
10 *dipstick ..."* (RN11:IV3:P12:L10)

11 By focussing on pathophysiological laboratory results little attention was paid to the possibility of
12 hypoactive delirium. Hypoactive delirium was not well understood by the participants.

13 *"The hypoactive, I don't know that I would actually recognise that even*
14 *now."* (RN21:IV6:P8:L6)

15 Participants who understood hypoactive delirium explained this type of delirium was more likely to
16 be recognised retrospectively. Participants explain that hypoactive delirium is often missed because
17 an older person with a hypoactive delirium does not attract attention in the same way that older
18 people with hyperactive delirium do.

19 *"I think maybe hypo-delirium needs to be pushed more. I think that it gets*
20 *missed a lot because they're nice and quiet."* (RN5:IV2:P18:L5)

21 **I gather information**

22 The importance of gaining a full clinical picture was acknowledged by the participants and they
23 described the necessity for collaboration to gain a clinical history, particularly to identify acute
24 behavioural changes. Families were recognised as key informants. Aged care specialists described a
25 more diverse range of collaborations in seeking information.

1 *"...if the family member is there.....you can say 'Is this how they would*
2 *normally be.....?'" (RN20:IV6:P4:L9)*

3 Having prior knowledge of the older person through previous admissions and handover information
4 were identified enablers for participants in recognising delirium.

5 *"...if we had looked after the patient the previous day, we would*
6 *suddenly notice a change. If you had not then you would be inclined to*
7 *ask the relatives.....'how is this patient at home?'" (RN17:IV5:P3:L15)*

8 **We describe what we see**

9 Participants reported recording their observations and information gathered from older people and
10 their carers to create a clinical picture. They did not acknowledge the presence of a delirium; or
11 label the presenting symptoms of older people as a delirium. The term delirium was viewed as a
12 medical diagnosis and the domain of medical officers.

13 *"We document what we observe... We don't....I don't target it as delirium. The*
14 *patient is having delirium - I don't write that". (RN18:IV5:P10:L3)*

15 *"...doctors are the only ones that can actually diagnose.....you can say 'I*
16 *suspect'.."* (RN2:IV1:P11:L14)

17 Overwhelmingly participants preferred the term 'confused' to 'delirium' as this was viewed as
18 describing rather than labelling. Delirium was seen to be a modern construct and poorly understood.

19 *"Once...the patient's diagnosis would have been confusion.....not delirium...I*
20 *think the words have changed but I'm not sure that the actual signs and*
21 *symptoms have..." (RN23:IV7:P16:L19)*

22 *".. what's the actual definition of delirium?to me a patient with delirium.....is*
23 *someone that's probably a bit confused, agitated that turns out to have a UTI*
24 *or a chest infection...."* (RN23:IV7:P15:L8)

1 This sub-theme inter-relates with the theme *'It's complex'* as registered nurses explained their
2 concern with incorrectly labelling an older person with delirium through their professional
3 responsibilities and out of concern for the older person who may be stigmatised.

4 **Theme 3: It's Complex**

5 Delirium recognition was found to be complex and participants experience, training and workplace
6 setting varied, creating divergence in their practice. Four sub-themes further describe the findings;
7 'Knowledge gaps in differentiating dementia and delirium'; 'Working with families and carers';
8 'Emotionally demanding'; and, 'Registered nurse and community attitudes'.

9 **Knowledge gaps in differentiating dementia and delirium**

10 A lack of understanding about dementia and the interrelationship with delirium was evident. There
11 was awareness about the possibility of mistakes being made between the diagnoses of dementia or
12 delirium. The participants were concerned about accurately differentiating between dementia and
13 delirium. This overlaps with their concerns expressed in the 'We describe what we see' sub-theme
14 about an incorrect label or diagnosis being given to older people.

15 *"I wouldn't feel.... confident enough to.. say that this person has delirium..."*

16 (RN4:IV2:P17:L8)

17 Once again, participants were reliant on their previous experiences, to understand differences
18 between dementia and delirium.

19 *"So I think it is your past experiences where you've seen the delirium from. So I*

20 *haven't had formal training but..."* (RN20:IV6:P10:L7)

21 Behavioural and Psychological Symptoms of Dementia (BPSD) were raised by participants as a
22 confounding factor when determining whether older people had a dementia or delirium.
23 Participants found challenges in finding the time to monitor changes in behaviour and cognition and
24 excluding medical causes of confusion, this reinforces the time barrier identified in Theme 1 'It's Not
25 My Job'.

1 *"And also trying to decipher.... (if) this is more about BPSD rather than a*
2 *delirium..."* (RN3:IV1:P10:L16)

3 **Working with families and carers**

4 Family members were valued for the special knowledge they could share in recognising acute
5 changes in the older person, however, complexities emerged. Participants hinted at concerns
6 around confidentiality and ensuring contact with the appropriate family member. A preference for
7 contact initiated by family members was expressed, and time was always a factor for consideration.

8 *'It's quite helpful sometimes when the family do come forward themselves ...'*
9 (RN11:IV3:P7:L7)

10 **Emotionally demanding**

11 Participants acknowledged that delirium was distressing and sad for older people who experienced a
12 delirium. The agitated behaviours which result from an untreated hyperactive delirium concerned
13 and challenged the registered nurses and the older people with delirium and their family.

14 *"The sad thing is that sometimes ... they remember that they punched the*
15 *nurse and that they were swearing their heads off and stuff like that.....it's sad,*
16 *really sad for them. It's terrible."* (RN2:IV1:P19:L5)

17 Along with the sadness expressed over caring from older people with a delirium, participants felt ill-
18 prepared to provide effective support for the behavioural changes emanating from a delirium.

19 *"It's just...anxiety and stress for everyone involved...."* (RN14:IV4:P24:L6)

20 The challenges of dealing with emotionally demanding scenarios added complexity to the workload.
21 Participants expressed their lack of competence in managing the stresses associated with providing
22 care for older people with a hyperactive delirium. Evidence based workplace strategies for
23 managing these stresses were not reported.

24 **Attitudes towards ageing and delirium**

25 The attitude of registered nurses towards ageing added complexity to the recognition of delirium in
26 older people in hospital. While ageism was rarely overt in the interviews; there was evidence that

1 delirium, which is most prevalent among older people, was not perceived as a priority. Other
2 conditions and nursing responsibilities were seen as more important despite the significance of
3 delirium recognition for older people.

4 *“... if you gave me a presentation of someone in their early twenties... [who*
5 *might seem to be] ...delirious; I’m more likely to say it’s acute psychosis.....you*
6 *bring your prejudice to your assessment.”* (RN16:IV5:P11:L17)

7 The need to recognise, assess and identify delirium was not perceived as the main concern when
8 people may need attention for medical conditions such as a heart attack.

9 *“...I don’t initially think delirium.....I think heart attack...”* (RN:24:IV8:P7:L23)

10 Similarly, delirium was acknowledged by some participants as a drug and alcohol concern rather
11 than an issue related to aged-care.

12 *“..when someone says ‘delirium’,.....I think alcohol withdrawal.”*
13 (RN16:IV5:P11:L15)

14 There were participants who expressed personal agency as an outcome of unintentional learning
15 which prompted reflective practice and the development of professional competency in delirium
16 recognition.

17 *“.....now that I’m sort of learning...about delirium, it’s like, ‘Oh, we could have*
18 *done something’...”* (RN7:IV6:P8:L8)

19 *“..I’d just think ‘Oh they’re old and confused...’.....I didn’t..... recognise that there*
20 *was a medical cause.... So it’s only through learning that I actually am now more*
21 *aware.’* (RN5:IV2:P1:L12)

22 Participants identified attitudes as a barrier to delirium recognition by colleagues and family
23 members as they described requirements on them to advocate with the healthcare team for the
24 confused older person and educate family members about dementia.

1 **Discussion**

2 These findings, presented in the three themes 'It's Not My Job'; It Is My Job; and 'It's Complex,'
3 provide an insight into current practices of registered nurses in recognising delirium in the older
4 person in hospital. Registered nurses self-identified as experienced in recognising delirium.
5 Similarities in the findings have been reported in recent research which described the discomfort
6 registered nurses experience with delirium, noting they not only avoided using the word delirium
7 but the more experienced nurses distanced themselves from the older patient who had a delirium
8 (El Hussein & Hirst 2016). The findings demonstrated a lack of evidence based practice and
9 acknowledgement by participants of the need for investment in training. Also evidenced is the
10 interaction of four factors in the recognition of delirium amongst older people. These are: The
11 perceived role of the registered nurse; the perceived role of other healthcare professionals; the role
12 of the organisation and the meaning of delirium.

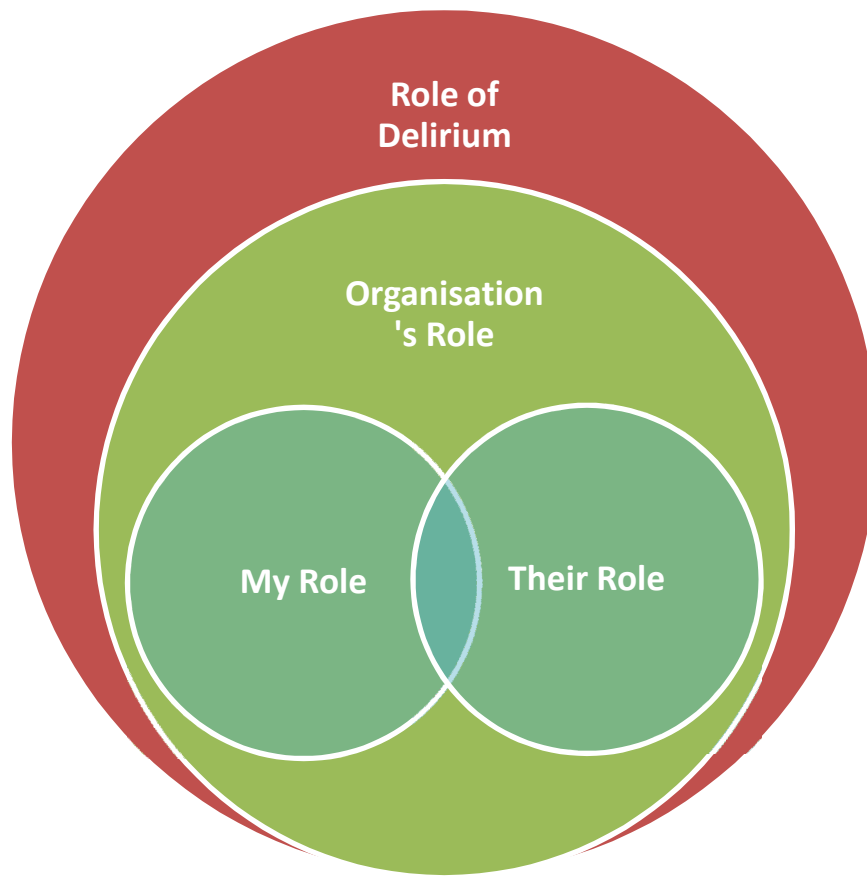
13

14 This exploratory qualitative descriptive study was limited to a small sample of registered nurses and
15 recruitment was challenging in the busy acute hospital, particularly amongst registered nurses from
16 surgical wards. However, saturation was achieved and the views of participants are likely to be
17 representative of registered nurses working in other areas. This study was undertaken by a CNC in
18 Delirium and Dementia which allowed the findings to be integrated into the strategic plan for the
19 hospital where the study was undertaken and used specifically to inform initiatives to improve
20 delirium care for older people.

21 **Where to from here**

22 Contradictory clinical practices in the assessment and identification processes to recognise delirium
23 among older people in hospital were reported by the registered nurses in this study. Participants
24 described delirium care as complex and simultaneously it was perceived as their job and not their
25 job. The findings from this study were used to develop a model called Roles and Responsibilities in
26 the Recognition of Delirium (Figure):

Figure: Roles and Responsibilities in the Recognition of Delirium



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17 The Roles and Responsibilities in the Recognition of Delirium model acknowledges that registered
18 nurses work within teams and systems which can enhance the implementation of evidence based
19 recognition of delirium. The model promotes the role of registered nurses in the recognition of
20 delirium. It acknowledges that registered nurses work within organisations whose priorities are
21 expressed through resources and policies. It is suggested that educational interventions remain key
22 in promoting the role of registered nurses in the recognition of delirium, and would allow the
23 implementation of evidence based clinical practice. While time in staff training can be costly, the
24 cost savings from preventing delirium and putting in place processes which reduce the length of

1 delirium provide greater, ongoing cost savings to the organisation. Safety and care quality is a
2 central concern driving support for improved practice in delirium care at organisational and clinician
3 levels, guidelines direct the need for delirium assessment as part of admission procedures for all
4 older people (ACSQHC 2014; NICE 2010).

5

6 This research has added to the CNC role as reflection on the roles and responsibilities model
7 provides a strategic and relevant means to developing multiple approaches to a complex role.
8 Strengthened by partnerships with academics, along with initiatives such as the Better Way to Care
9 guidelines for clinicians, managers and patients (ACSQHC 2014), increased engagement with all
10 levels of stakeholders within the organisation has occurred resulting in the introduction and
11 implementation of a delirium screening tool across the hospital and wider district. Educational
12 interventions to enhance the implementation have been developed to provide engaging educational
13 presentations, supported by innovative methods such as the Delirium flipchart and OSCEs (UOW
14 2015), to not only raise awareness but develop competency and promote adherence.

15

16 The findings from this study are supported by previous research which acknowledges the crucial role
17 registered nurses contribute to the recognition of delirium (Brown et al. 2007; Cole et al. 2009;
18 Irving, Fick & Foreman 2006; Rice et al. 2011). Web-based education interventions are growing in
19 popularity due to accessibility, and they achieve high levels of satisfaction with the learning
20 experience (McCrow et al. 2014). What is missing from web-based education is the challenge of
21 engagement in an authentic work environment and the benefits of immediate feedback from
22 mentors and colleagues, provided by interactive learning interventions, such as simulation methods
23 (Wand 2011). Simulation methods foster confidence and competence in participants as they engage
24 in learning guided by adult learning principles and undertake assessments by interventions such as
25 Objective Structured Clinical Examination (OSCE) to develop mastery (Mitchell et al. 2015). The

1 research which followed on this study acknowledged the benefits of both approaches to education
2 and developed an educational programme which combined different educational strategies.

3

4 The research team used the findings from this study to implement a new education programme for
5 delirium care which focuses on skill development of registered nurses to recognise delirium. This
6 education consists of four learning activities:

- 7 • Preparation activity: 15 minute online delirium care module;
- 8 • Face-to-face education session: 15 minutes using Delirium Care Flip Chart resource;
- 9 • Reflective practice activity: Half hour guided critical review of patient documentation of an
10 older person who had a delirium; and
- 11 • Objective Structured Clinical Examination (OSCE): Two OSCEs assessing delirium recognition
12 with two patient role play activities: (1) Using the Abbreviated Mental Test (AMT) and
13 Confusion Assessment Method (CAM) and (2) Using the Delirium Risk Assessment Tool
14 DRAT).

15 To date, 65 practitioners have participated as facilitators, role playing an older person with a
16 delirium, OSCE assessor or a learner in this programme. What was crucial about this programme of
17 education is that the content includes guidance for training the facilitators, role play participants and
18 assessors which mean the programme can be sustained and has capacity building activities as a
19 central tenet. Thus the findings from this study demonstrate how qualitative research can achieve
20 knowledge translation at the adherence end and not simply staying at the beginning level of
21 awareness (Grimshaw et al. 2012; Micken et al. 2011).

22 **Conclusions**

23 The recognition, assessment, identification and diagnosis of delirium can be difficult for many
24 registered nurses, due to the interplay of factors identified in the Roles and Responsibilities in the
25 Recognition of Delirium Model. Interventions to improve the recognition, assessment, identification

- 1 and diagnosis of delirium by registered nurses needs to target each of the four domains described in
- 2 the model
- 3 .

1

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