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1 **Abstract**

2

3 **Background:** Nurses are increasingly at risk of experiencing physical or verbal violence during their
4 career. This study aimed at exploring the responses of pre-registration nursing students to a patient
5 aggression in a simulated patient care scenario and at facilitating the development of de-escalation
6 management skills.

7 **Methods:** Using a role-play methodology, 28 pre-registration nursing students took part in a simulated
8 aggressive patient scenario. Data were drawn from recorded participant debriefing sessions
9 immediately following simulation immersion.

10 **Results:** Students reported a high level of stress and a variety of emotive responses. They identified
11 new insights into strategies that could be used to defuse volatile situations in their future practice and
12 highlighted that the use of a standardised patient enhanced the authenticity of the experience.

13 **Conclusions:** Facing verbal aggression is confronting for nursing students. Practicing and reflecting on
14 de-escalation management strategies, in an authentic simulated safe environment, provided students
15 with an opportunity to gain new insights into their role as a nurse while developing effective strategies
16 to draw on in clinical practice.

17 **Key Points**

- 18
- Simulation provides opportunities for students to practice managing de-escalation/build de-
19 escalation strategies
 - Peer empathy can be enhanced through role-play simulation
 - Authenticity is enhanced by replacing manikins with actors as simulated patients
- 20
21

22 **Key words:** simulation, stress, pre-registration nursing, de-escalation, role-play

23

24 **Background**

25 Increasing incidents of violence against nurses in the workplace are of global concern
26 (Mitchell et al., 2020). Although exposure to violence is more prevalent in some clinical areas,
27 all nurses are at risk of experiencing some form of violence, either physical (25%) or verbal
28 (between 75-90%), and this can result in physical and psychological trauma (Pich & Roche
29 2020; Hopkins et al., 2018;). First exposure to violence in the workplace for nurses often
30 occurs during pre-registration clinical practicum (Hopkins et al., 2014). When attempting to
31 diffuse or de-escalate volatile situations, nurses are exposed to potentially dangerous
32 situations. Despite this, few opportunities are provided for pre-registration nurses to develop
33 the skills required to manage the experience or related stress (Mitchell et al., 2020; Crombie
34 et al., 2017). It is therefore important that pre-registration nurses are provided with
35 opportunities to learn de-escalation management strategies and to recognise and manage
36 their own responses during stressful experiences.

37

38 LeBlanc et al. (2012) stated that 'stress results from an individual's perception of the demands
39 and resources present in a particular situation' (p. 369). The emphasis is on the individual's
40 perception; therefore, any given situation may prove highly stressful for one person, and less
41 so for another. The 'fight and flight' instinct is one of the ways our bodies manage stress
42 (McGregor et al., 2017). However, there is a point at which the physiological and emotional
43 responses to stress move from advantageously stimulating to negatively impacting
44 performance (McGregor et al. 2017).

45

46 Registered nurses working in health care environments are regularly exposed to high stress
47 levels (Hegney et al. 2015). A plethora of experiences can trigger stress for pre-registration
48 student nurses both during clinical practicum and university teaching and learning activities.
49 Clinical practicum brings anticipation of exposure to highly stressful situations, including
50 caring for a deteriorating patient, coping with death and dying, fear of making a mistake, and
51 managing aggressive patients/relatives (Allen, 2018; Hopkins et al., 2018). Simulation is a
52 commonly used teaching and learning strategy for pre-registration nurses that can purposely
53 expose them to controlled stress evoking situations to facilitate recognition of personal
54 triggers and responses. It is also acknowledged that simply participating in simulation

55 experiences in the university setting can be a source of stress for pre-registration student
56 nurses (Nielson and Harder, 2013). However, qualitative review of student emotional
57 reponses and management strategies has been lacking in the literature.

58

59 This paper describes qualitative findings from pre-registration student nurses following
60 exposure to a simulation scenario designed to representing an authentic clinical situation
61 within a community setting. We describe students' emotional response reflections, and
62 perceived management strategies that would be useful if confronted with similar scenarios in
63 the future.

64

65 **Materials and Methods**

66

67 **Study Aim**

68 To explore pre-registration student nurses' responses to patient aggression in a simulated
69 patient care scenario and to facilitate the development of de-escalation management skills.

70 **Design**

71 This study is part of a broader collaboration developing structured approaches to develop
72 resilience within nursing students.. The scenario focused on a mature-aged male patient, who
73 had been recently discharged from a hospital requiring community nursing care in his home.
74 The patient was verbally aggressive towards the nurses and his wife, creating a complex and
75 stressful situation requiring de-escalation. The simulation used the role-play methodology
76 and was developed and implemented using International Nursing Association for Clinical
77 Simulation and Learning (INACSL) Standards for Best Practice Simulation (INACSL, 2017). We
78 decided to use a 'human' simulated patient (SP) to enhance authenticity and facilitate rapid
79 and deep engagement in the scenario (Nestel and Bearman, 2015; Nikendei et al., 2019). The
80 SP was provided with a scenario brief describing the learning objectives, the patient's social
81 and medical history, escalation triggers, and de-escalation cues. The SP provided an authentic
82 patient voice, utilising his experience as a mental health nurse and trainer in managing and
83 teaching de-escalation to healthcare professionals. The study was approved by the University
84 Human Research Ethics Committee (HREC 18-2424).

85 The learning objectives included:

- 86 • Identify signs of escalating behaviours
- 87 • Develop an understanding of de-escalation strategies
- 88 • Enhance communication and collaboration between nurses

89 **Setting and Participants**

90 The simulation took place in a clinical simulation laboratory in a large Australian metropolitan
91 university. A convenience sampling method was used to recruit 28 pre-registration nursing
92 students (male 7, female 21) enrolled in the 'Community Health' subject in the final year of a
93 three-year program. The students in the class ranged from high school matriculation to
94 mature aged students.

95 The students were provided with a Student Simulation Guide that included a brief precis of
96 the simulation, described the significance of the scenario, and outlined the learning objectives
97 and pre-reading. On the day of the simulation, participants were oriented to the space and
98 randomly allocated to either active performer or active observer roles for the immersive
99 component of the simulation. The active performers comprised two nurses (one acting as a
100 student and one acting as a registered nurse) and one partner of the patient. Props were
101 provided to encourage engagement. Each of the two groups had the opportunity to
102 participate in the simulation twice. In each simulation iteration, roles were reallocated so that
103 active performers became active observers, and vice versa. As there were more students than
104 active performer roles, some students were active observers twice. Debriefing happened
105 immediately after each immersion in the role-play using a framework developed by the
106 Sydney Clinical Skills and Simulation Centre (2016).

107

108 **Data collection and analysis**

109 Qualitative data were collected from audio recordings of debriefing sessions (up to thirty
110 minutes in duration and transcribed verbatim), following Braun and Clarke's (2006) six-step
111 process. Preliminary codes were initially assigned by two of the authors, and emerging
112 patterns and themes were identified. The research team reviewed initial themes to reach a
113 consensus.

114 **Results**

115 Overwhelmingly students described the simulation scenario raising multiple emotions and
116 felt high levels of stress during immersion. They articulated how they felt the de-escalation
117 strategies they had learnt might shape their future practice. Three key themes and related
118 subthemes emerged from the data and are outlined below.

119 ***Key Theme 1: Sources of stress***

120

121 Although simulation itself can be stressful for students, this simulation experience was
122 specifically designed to evoke stress.

123

124 ***Sub theme: Authenticity enhancing intensity***

125 The SP was perceived as highly authentic by students whose simulation curriculum more
126 commonly involved manikins or peer role-play. Students reported that during peer role-play,
127 their fellow students were often more sympathetic in their reactions and consequently came
128 across as less authentic:

129 *“When you do the simulation... where the students act... it doesn't feel as realistic*
130 *because they're trying to consider your position”*

131 The authenticity of the simulation was reported to have been enhanced by what students saw
132 as the SP's unpredictable responses:

133 *“It was a lot more intense... you're not quite sure how he's going to react... [his] quick*
134 *changes in mood and having to think really fast... when we had [other] SIM patients*
135 *we know just go back to this step-by-step procedure, but when you do say something*
136 *to Scott [Actor] he reacts completely unexpectedly. You have no idea what he's going*
137 *to say”.*

138 Despite students describing the simulation as “*intense*” and “*stressful*”, they reported valuing
139 the experience due to the level of authenticity and ease in immersion:

140 *“When he was shouting and then being aggressive, that was stressful., but I found it*
141 *to be quite engaging compared to the normal labs where it might be like, all right guys,*
142 *we're doing wounds”.*

143 **Sub theme: Experiencing the theory practice gap**

144 Although students were aware of the simulation content, when faced with the reality rather
145 than the theory of an aggressive patient, students found themselves struggling to apply de-
146 escalation skills learnt previously :

147 *“Everything that you learnt in class just went out the window”.*

148 For most students, the simulation represented the first time they had been the target of
149 intentional disrespect. When facing belittling comments and the use of profanity, some were
150 at a loss for how to react.

151 *“I don’t know how to respond when someone asks you to ‘get out’ or saying some rude
152 thing... I don’t know how to deal with this”.*

153 As a testament to the authenticity of the simulation and SP’s skills, during each debrief the
154 students discussed the experience as if it happened in the real world. The students recognised
155 that a community setting resulted in a perceived shift in power from what they had come to
156 expect in a hospital environment.

157 *“You have no kind of control of the situation. Like on the ward you know where you
158 are and how things run. But here you have two people, you’re in a stranger’s house
159 and - you know, fear kind of kicks in”.*

160 **Key theme 2: Emotional responses to stress**

161 The inherent stress built into the simulation scenario raised mixed emotions for students.

162 **Sub theme: Feeling disempowered, confronted, vulnerable, helpless and hopeless**

163 The simulation was described by the majority of students, irrespective of role, as “quite
164 scary”, “confronting”, and “frightening”.

165 Students had limited experience to draw upon and at times did not know what to do, which
166 left them feeling disempowered.

167 *“You didn’t even get any chance to talk.. just introduce yourself and there - it was just
168 like shut up... [I was] feeling hopeless and helpless... as a student nurse you felt really
169 helpless because it was really out of your control”.*

170 When discussing why it had been difficult to put skills into practice, students stated that it
171 was having been put “under pressure” and expressed frustration when “He didn't want to
172 listen”.

173 There were different stressors for students in different roles. Students in the nurse and
174 observer roles expressed distress regarding the treatment of the wife by the patient.

175 *“I was not sure what to do in that situation [verbal abuse of wife] ... trying to stay*
176 *professional in that situation and how to handle yourself - just where to stand, how to*
177 *act, what to do - because they're clearly not talking to you and they're agitated... I*
178 *wasn't sure what to do there at all”*

179 **Sub theme: Empathy for each other**

180 Some students demonstrated empathy for each other by attempting to deflect or intervene
181 when a classmate was experiencing verbal aggression. As one student who had been in the
182 Student Registered Nurse (SRN) role explained:

183 *“I just wanted to help my nurse. Because I don't want other people shouting at just one*
184 *person... I want to help my nurse. Just to stop him swearing”.*

185 One of the observers also reported noticing team members in the active performer roles using
186 deflection to support teammates who were under pressure:

187 *“When the student nurse was speaking up and the patient got really aggressive, she*
188 *[RN] took it upon herself to shift the tension over to her[self]. That calmed him down a*
189 *bit. Because there was like a bit of tension arising between the student nurse and the*
190 *patient”.*

191 However, not all students were confident to intervene when the patient was directing his ire
192 at another student:

193 *“It's like how to maintain yourself when you're not directly in the line of fire... you can't*
194 *really step in”.*

195

196 **Key theme 3: Reflection and practice change**

197 Students reflected on what had occurred, why the patient had reacted the way he did and
198 how they could use what they had learnt to shape their future practice.

199 **Sub theme: New and unexpected insights into the nursing role**

200 The simulation provided a unique opportunity for students to come to terms with some of
201 the darker elements of nursing practice.

202 *“I haven't imagined myself being in that situation where the patient is like going off on*
203 *me”.*

204 Students also reported having their eyes opened to previously uncharted territory.

205 *“We never have been to this stressful situation before, so it was like, oh, I wonder*
206 *what's going to happen now”.*

207 Being in or witnessing what could have escalated into a dangerous situation, provided
208 students with first-hand experience of possible risks to their own safety in the clinical
209 environment and the importance of positioning themselves with easy access to an exit.

210 *“Safety...they sat there [pointing]. The exit's there [pointing]. They should stand here*
211 *[pointing]. What if he starts beating them up?”*

212

213 **Sub theme: Developing an increased appreciation for communication skills**

214

215 Retrospectively, the students recognised things they and others had said or done, that further
216 inflamed the already dissatisfied patient. They now had more insight into the type of language
217 that was and wasn't appropriate when trying to defuse a situation.

218 *“Can't say sit down and calm down... It's quite dismissive and condescending. It's not*
219 *making any effort to understand why they're upset. You're just telling them that you*
220 *don't want to deal with their behaviour or their attitude”.*

221 Other students reflected on how the concept of 'calming down' was significant to their own
222 internal monologue and emotional responses while maintaining the patient at the centre of
223 their care.

224 *“[in] the moment I thought, he's the patient. He's the first priority... so I should calm*
225 *down in myself, and then to talk”.*

226 They discussed listening and asking probing questions as important strategies to find the
227 source of the patient's anger.

228 “[could try saying] *I’m sorry that you’re upset. Could you perhaps explain to me*
229 *what’s going on that’s led you to this point? Because I’d like to help you”.*

230 Students continued to reflect on how they might better have handled a verbally aggressive
231 patient. With hindsight, they were more aware of his body language and his perspective.

232 *“They didn’t say, would you like to have a seat? Would you feel more comfortable if*
233 *we were seated? They said, have a seat. They gave him an order ...I don’t know if they*
234 *saw what I could see as an observer - I was observing the patient - but from the second*
235 *we walked in, he had the shits already...He had his feet up. He was cranky. He was*
236 *already unhappy, and he didn’t want to be told what to do in his own home. Which is*
237 *reasonable”.*

238 Understanding and responding to the power dynamic between the nurse and the patient was
239 acknowledged by the majority of students as important in managing escalating situations.

240 *“It seemed like them sitting down and him standing up, sort of - there’s that power*
241 *balance”.*

242
243 Although none of the student teams was able to completely defuse the situation, one group
244 was more successful. Seeing their peers use different communication techniques was useful
245 for other students.

246 *“They tried to listen to the person, even though it was probably very frustrating that*
247 *they [patient] weren't listening to the nurse. But the nurse was listening to what the*
248 *patient was feeling like. They listened. Wanted to know more about why he didn’t want*
249 *to take an injection... once they started listening, he started calming a bit more. You*
250 *know, he did calm down then for the scenario”.*

251 Several students also realised that they entered the simulation too focused on providing the
252 required care and technical skills to the detriment of their communication skills.

253 *“We just brought up the topic of giving the subcut that he obviously didn't want. That's*
254 *what we were so focused on, and we didn't really try to build the relationship”.*

255 Rather than being despondent, students understood that they still had time to work on their
256 de-escalation and communication skills and that their expertise would develop with time and
257 exposure.

258 *“It should get easier because you might find techniques that might have worked in*
259 *some person, and you can use those techniques to use it. It's just building up those*
260 *experiences with different people”.*

261

262 **Discussion**

263 This paper reports on qualitative findings from a research study exploring pre-registration
264 student nurses' responses when exposed to a stressful de-escalation simulation scenario.
265 Following simulation immersion, students identified a gap between what they had learnt
266 about de-escalation and effectively applying it. They also described how the authenticity of
267 the scenario had enhanced the intensity yet had provided an opportunity to build de-
268 escalation strategies for use in practice. These findings are supported by a study (Beattie et
269 al. 2018) on healthcare workers' responses to workplace violence which concluded that they
270 should be taught to understand and manage their response to threatening and stressful
271 environments to enhance practice and personal wellbeing.

272 The students in our study self-reported that being exposed to a verbally aggressive patient
273 had placed them in a position where "*everything goes out the window*", putting the provision
274 of safe care into question. Freezing or going blank when confronted by aggressive patients
275 has also been reported elsewhere (Beattie, et al., 2018). Simulation experiences like this, can
276 provide an opportunity for pre-registration nurses to understand how they react in
277 threatening and stressful situations and develop strategies to avoid the 'frozen' moments that
278 impact personal and patient safety.

279 Authenticity in simulation is essential to facilitate buy-in and participant immersion (INACSL,
280 2016). Students in our study identified the impact of the authenticity of the simulation on the
281 level of stress that they experienced. They described how the inherent stress built into the
282 simulation scenario raised multiple emotions for them, and they reflected on what and why
283 the patient reacted in the way he did and how they could learn from the experience to shape
284 their future practice. The level of authenticity was elicited by using an experienced SP rather
285 than a peer or manikin in the role of the patient (Nikendei et al., 2019).

286 The creation of a scenario employing a mature aged male SP matched with a student in the
287 wife's role added complexities related to intimate partner violence and a perceived power
288 imbalance increasing the stress response by the students. Nurses are often called to advocate
289 on behalf of those experiencing domestic violence (Tarzia et al., 2020), however, receive
290 limited if any training during their pre-registration degree in preparation (Conner et al., 2013).

291 The power dynamics between the SP and care providers resulting from being a 'visitor' in the
292 patient's home environment combined with explicit aggression was overwhelming for most
293 participants. As a result, they had difficulty managing the aggression towards the wife and
294 their peers, often choosing to retreat. While pre-registration nurses report facing both verbal
295 and physical aggression when on clinical practicum (Hopkins et al., 2018), there is a paucity
296 of research reporting on how they manage aggressive behaviours during community based
297 clinical practicum. One such study (Foster & McGloughen, 2019) on pre-registration nursing
298 and pharmacy student's management strategies when faced with challenging interactions
299 with patients and their families in an unspecified range of clinical practicum environments
300 found that as in our study, some students chose to withdraw, albeit temporarily, from the
301 situation.

302 Empathy is a core concept that has been identified to assist students in effective
303 communication and patient care satisfaction (Stephany, 2014). Though the current study
304 reported was not designed to directly look at the development of student's empathy,
305 following the simulation students expressed that they felt empathy for their peers and the
306 experience of those playing active performer roles in the simulation. Beattie et al. (2018) also
307 noted the importance of peer support when managing the personal impacts of workplace
308 violence. Interestingly, none expressed empathy for the patient. Perhaps this was a response
309 to students' not 'liking' the patient's behaviours and unconsciously transferring that into not
310 feeling empathy for him. Bucchioni et al. (2015) described how empathy is increased for those
311 who are liked over those who are not. Research has shown that healthcare professionals as
312 with the population at large are not immune to implicit/unconscious bias related to
313 characteristics such as gender, age, disability, and race, which can negatively impact care
314 provision (FitzGerald and Hurst, 2017). Feelings of anger and frustration towards the
315 perpetrator following exposure to similar scenarios have been reported elsewhere (Beattie
316 et al., 2018). Learning to manage these feelings and biases towards the aggressive patient
317 requires further development within the scenario and is an opportunity for future simulation
318 research.

319

320 It is suggested that educational strategies such as the simulation in this paper are embedded
321 in curricula to facilitate practical opportunities for students to develop de-escalation skills.

322 The principles of creating structured learning outcome-based training for de-escalation
323 strategies have broader applicability for creating structured learning outcome-driven
324 approaches for other forms of stress in nursing.

325 **Limitations**

326 Results of this study should be viewed considering that stress levels may have been increased
327 not only by the scenario itself but also as a result of being observed. The impact of observation
328 stress could be reduced in future iterations by removing the observers from the room to
329 watch remotely. In addition, the tutors conducted the debriefing interviews which may have
330 influenced student responses. As the tutor allocated participant roles, the results may be
331 different if students had self-selected their roles. However, if so, more timid or less confident
332 students may avoid active participant roles impacting learning opportunities.

333 334 **Conclusion**

335
336 Pre-registration nurses are likely to face physical and verbal aggression during their careers,
337 however there are limited opportunities for them to practice the skills required to defuse
338 workplace incidents. Practising de-escalation management strategies in an authentic
339 simulated safe environment and reflecting on additional management strategies during
340 debriefing, provides students with an opportunity to gain new insights into their role as a
341 nurse and develop their own effective strategies to draw on when faced with similar
342 situations in clinical practice.

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