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The Long Tail of COVID 19: Implications for the Future of ED Nursing

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**The Long Tail of COVID 19: Implications for the Future of ED Nursing**

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Journal Pre-proof

1 **Header: Research**

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**The Long Tail of COVID 19: Implications for the Future of ED Nursing**

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13 **Abstract**

14 **Objective:** To understand the perspectives of emergency nurses' perception of psychological trauma  
15 during COVID 19 and protective mechanisms used to build resilience.

16 **Method:** The primary method was qualitative analysis of semi-structured interviews, with survey data  
17 on general resilience, moral resilience, and traumatic stress used to triangulate and understand  
18 qualitative findings. Analyses and theme development were guided by Social Identity Theory and  
19 informed by the Mid-Range Theory of Nurses' Psychological Trauma.

20 **Results:** A total of 14 emergency department (ED) nurses were interviewed, 11 from one site and 3 from  
21 the other. Almost all nurses described working in an ED throughout the pandemic as extraordinarily  
22 stressful, morally injurious, and exhausting at multiple levels. While the source of stressors changed  
23 throughout the pandemic, the culmination of continued stress, moral injury, and emotional and physical  
24 exhaustion almost always exceeded their ability to adapt to the ever-changing landscape in healthcare  
25 created by the pandemic. Two primary themes were identified: Losing Identity as a Nurse and  
26 Hopelessness and Self-Preservation.

27 **Conclusion:** The consequences of the pandemic on nurses are likely to be long-lasting. Nurses need to  
28 mend and rebuild their identity as a nurse. The solutions are not quick fixes but rather will require  
29 fundamental changes in the profession, healthcare organizations and society. These changes will  
30 require a strategic vision, sustained commitment, and leadership to accomplish.

31 **Keywords:** Emergency department, Nurses, Trauma, COVID 19, Moral resilience

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## Introduction

Emergency departments (EDs) are a vital part of the healthcare system, handling a wide variety of patient concerns and acting as a safety net for many people. Additionally, EDs are also one of the most stressful environments for nurses, with significant rates of burnout, moral distress, and traumatic stress.<sup>1-3</sup> Emergency nurses experience high rates of workplace violence from patients and family members<sup>4,5</sup> and, like all nurses, have high rates of other workplace injury.<sup>6</sup> EDs struggle to retain nurses,<sup>7,8</sup> which places remaining nurses under increased strain and puts patients at risk. Limits in resources during the pandemic, especially nurse staffing, have led to an increase in “ED boarding,”<sup>9</sup> where individuals are “admitted” for treatment but still occupy space in the ED awaiting transfer. This backlog of ED patients contributes to increased stress and increases the likelihood of errors and decreased quality of care.<sup>10</sup>

The consequences of this historic, unprecedented event for nurses go beyond “burnout”, a workplace phenomenon characterized by emotional exhaustion, lack of efficacy, and callousness.<sup>11</sup> The combination of individual, health system, and societal factors are deeply wounding to the moral fiber, identity, and integrity of nurses. Emergency nurses have been placed into situations during the pandemic that led to moral injury.<sup>12,13</sup> Moral injury in healthcare is a type of suffering characterized by exposure to circumstances that violate one's values and beliefs eroding integrity, capability, and perception of basic goodness, and creating psychological, behavioral, social, or spiritual distress.<sup>12</sup> These nurses faced challenges with ever-changing protocols, shortages of resources, expedited time constraints and the responsibility of refusing patient visitors.<sup>14,15</sup> Emergency nurses were expected to provide care and follow guidelines, often against their own beliefs and values as a nurse and as part of the nursing profession. This left emergency nurses with massive emotional struggles leading to guilt and remorse, wishing that they could have performed differently, even though the decisions were likely unavoidable at the time.<sup>12,14</sup> Work-related trauma, feelings of institutional betrayal and moral injury came together to create potentially morally injurious events and erosion of a nurses' moral core, identity, and worth.<sup>13,16</sup>

These various types of trauma, moral injury, and system-wide abandonment have contributed to nurses leaving, or considering leaving, the profession.<sup>17</sup> A major driver of attrition may be erosion of their nursing identity, nurses with low professional identity are more likely to report intent to leave jobs and the profession<sup>18,19</sup>. As the COVID-19 pandemic continues, nurses face obstacle after obstacle; their self-concept and integrity as nurses have been challenged, especially in relationship with patients, families, coworkers, leaders, and organizations<sup>12,13,15</sup>. Moral resilience, “the capacity of an individual to preserve or restore integrity”<sup>20</sup> (p. 489) has been proposed as a protective resource to support nurses

89 whose integrity has been threatened or violated.<sup>20</sup> Moral resilience, a domain within the broader  
90 concept of resilience, harnesses the inherent integrity of persons to restore their moral agency to  
91 choose actions that are aligned with their values.<sup>21</sup> Like generic resilience, it is a strengths-based  
92 concept that empowers people to respond to adversity rather than become victimized and powerless.<sup>21</sup>  
93 Understanding emergency nurses' experiences of the COVID-19 pandemic and how it impacted them  
94 and their professional identity may provide information useful for designing and implementing  
95 interventions to support them and the healthcare system. The purpose of this exploratory study is to  
96 better understand the perspectives of emergency nurses' psychological trauma and resilience during  
97 COVID 19 and protective mechanisms used to build resistance. This will not only inform local  
98 interventions but also contribute to the emerging body of knowledge on trauma and resilience during a  
99 pandemic.

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## 104 **Methods**

105

### 106 ***Theoretical Frameworks***

107 Foli's Middle Range Theory of Nursing Trauma articulates how nurses' daily caring work exposes  
108 them to many potentially traumatic events<sup>22</sup> (see Table 1 for critical concepts). Emergency nurses are  
109 particularly susceptible to trauma, including Secondary Trauma, Vicarious/Secondary Trauma, Historical  
110 Trauma, Workplace Violence, System Induced Trauma, Insufficient Resource Trauma, Second Victim  
111 Trauma, and Trauma from Disaster, resulting from the experience of and witnessed suffering of primary  
112 trauma.<sup>22</sup> In addition to usual trauma exposure, during the pandemic emergency nurses experienced  
113 increased risk of Disaster-Related trauma, Insufficient Resource Trauma, System Induced Trauma, and  
114 Workplace Violence. Unfortunately, the COVID-19 pandemic has further exacerbated existing problems  
115 and created new concerns for emergency nurses.<sup>15,17,23</sup>

116 Social identity is a person's awareness of who they are based on membership in a group(s).  
117 Social Identity Theory was developed during the 1970's by Henri Tajfel to emphasize the importance of  
118 group membership to social identity and accentuate how group membership can be a source of pride  
119 and self-esteem.<sup>24</sup> This theory explains phenomena that occur between groups such as discrimination  
120 and stereotyping.<sup>25</sup> More recently, Social Identity Theory has gained merit as a framework explaining  
121 social identity and group memberships' relationships with health and wellbeing,<sup>26-28</sup> highlighting how  
122 body and mind are conditioned by group belonging.<sup>29</sup> This framework has been used to examine  
123 stressful life transitions, including reactions to trauma, using the Social Identity Model of Identity  
124 Change<sup>30</sup> (SIMIC) and shows that negative responses to trauma can lead to significant changes in social  
125 identity.

126 Social Identity Theory has been applied to the nursing profession and suggests that the nursing  
127 identity is constructed through a process of social belonging in multiple communities (the professional,  
128 the health system, the unit, etc.), in relationship with other individuals (patients, coworkers), and in  
129 relationship with external groups (e.g., the public).<sup>31</sup> The SIMIC was used to understand changes in  
130 emergency nurses' professional and personal identity from their experiences during the COVID-19  
131 pandemic.

132

### 133 ***Methods/Design***

134 This study used a concurrent, mixed methods design.<sup>32</sup> The primary method was qualitative  
135 interviews, with survey data used to triangulate and understand qualitative findings. A qualitative  
136 descriptive approach guided this study which seeks to provide a straightforward description of a

137 phenomenon of interest.<sup>33</sup> Univariate descriptive approaches to statistical analysis were used for  
138 quantitative data and integration occurred through weaving of qualitative and quantitative findings to  
139 triangulate emergency nurses' experiences. Analysis and theme development were guided by Social  
140 Identity Theory<sup>22</sup> and informed by the Mid-Range Theory of Nurses' Psychological Trauma.<sup>22</sup> Participants  
141 provided their consent to participate. The potential risk of psychological distress during the interview  
142 was outlined and information was provided for Employee Assistant Program. The study was approved  
143 by the Institutional Review Board of Reading Hospital and Missouri Baptist Medical Center.

144

### 145 **Sample and Setting**

146 Study sites were two Magnet-designated, acute care hospitals. One site is a Midwestern hospital  
147 whose ED is not a trauma center and cares for 100 patients per day with approximately 40 of those  
148 being COVID patients. The second site is level 1 trauma center on the East Coast and is the 10<sup>th</sup>  
149 busiest ED in the country.

150 The target population was nurses working in the emergency department (ED) with COVID-19  
151 patients. Fourteen nurses from the ED who provided direct care for patients with COVID-19 participated  
152 in this study. All participants were Caucasian females with professional nursing experience ranging from  
153 two to twenty years of practice. Two nurses were master's prepared, and twelve nurses had Bachelor of  
154 Science in Nursing degrees. Purposeful sampling was used, with potential participants identified by  
155 clinical staff as those who had rich experiences on the phenomenon.

156

### 157 **Team**

158 The research team consisted of four doctorally-prepared nurse researchers, four critical care  
159 nurses, a medicine nurse, one nurse administrator, and a hospital chaplain. Each stage of the research  
160 process was evaluated by the entire group, to reduce individual researcher bias. Two doctorally-  
161 prepared nurse researchers conducted all interviews (one at each site). Frontline nurses who were not  
162 participants in the study confirmed themes and identified and provided member checking, which  
163 increases credibility of findings as based in the data and the lived experience of those who experience  
164 the phenomenon.<sup>34</sup>

165

### 166 **Recruitment**

167 After approval, a study flyer was emailed to all nurses working in the EDs that had direct contact  
168 with COVID-19 patients and placed throughout ED units. The flyer provided a brief study description,  
169 eligibility criteria, and investigator's contact information. Research team members also attended shift  
170 huddles to describe the study and provide additional flyers. Fourteen emergency nurses contacted  
171 investigators and all fourteen nurses were eligible and agreed to participate. They completed surveys  
172 followed by interviews. Interviews were scheduled at a mutually convenient time. Data saturation was  
173 met with a sample of thirteen participants. A confirmatory interview was completed to verify saturation.

174

### 175 **Data Collection Strategy**

176 Written consent was obtained prior to completing surveys. Participants completed surveys of  
177 the following measures using a secure web application for managing databases (REDCap), prior to semi-  
178 structured interviews: the 10-item Connor-Davidson Resilience Scale<sup>35</sup> (CD-RISC 10; assesses resilience)  
179 the revised Impact of Event Scale<sup>36,37</sup> (IES-R; measures traumatic stress); and the 17-item Rushton Moral  
180 Resilience Scale<sup>38</sup> (RMRS; measures moral resilience). Participants were informed that participation was  
181 completely voluntary, they were free to withdraw at any time without penalty, that participation and  
182 non-participation would not be considered as part of their employment, and they could refuse to  
183 answer any questions. Participants all chose to be interviewed in person, which took place in private  
184 offices and were recorded for later transcription. Interviews lasted an average of 30 minutes. Semi-

185 structured guides were used for interviews. Survey data was not available to the interviewer and was  
186 integrated during analyses. (See Table 2)

187

### 188 **Data Analysis**

189 Qualitative descriptive design allows the researcher to discover the who, what, and where of  
190 events or experiences while gaining insight from participants regarding a poorly understood  
191 phenomena.<sup>33</sup> Because this study sought to understand the traumatic stress and resilience of emergency  
192 nurses who cared for patients with COVID-19, qualitative description was the most appropriate method.  
193 The research team read transcribed interviews in their entirety to develop an overall understanding of  
194 participant experiences. The template style was used to organize data using codes.<sup>39</sup> Template style is a  
195 particular type of thematic analysis, focused on hierarchical coding which can be changed with the  
196 needs of the study and ongoing analyses. Initial codes were developed *a priori* based on concepts of  
197 resilience, traumatic stress, and moral resilience. Codes were expanded upon and added to through  
198 inductive analysis through an inductive-deductive hybrid approach.<sup>40</sup> Team members evaluated codes  
199 and assisted with theme development and verification. The research team had ongoing discussions to  
200 ensure participant experiences and perceptions were not dismissed due to researcher bias.

201

### 202 **Results**

203 A total of 14 emergency nurses were interviewed, 11 from one site and 3 from the other. Nurses  
204 had high levels of both general resilience and moral resilience (CD RISC 10 mean = 31.2, SD = 4.4; RMRS  
205 mean = 45.9, SD = 4.6). CD RISC 10 scores are as follows: 25<sup>th</sup> % =29; 50<sup>th</sup> % =32; 75<sup>th</sup> % =36. RMRS is a 17-  
206 item scale with higher scores indicating greater resilience. There are no established cutoff scores for the  
207 RMRS. Despite having high levels of resilience and moral resilience, participants revealed that the  
208 adversity they faced exceeded their individual capacity to prevent psychological trauma from occurring.  
209 Almost all reported that they had been highly impacted by the events of the COVID-19 pandemic (IES\_R  
210 median = 28, range 8-73). Nurses described working in an ED throughout the pandemic as  
211 extraordinarily stressful, morally injurious, and exhausting at multiple levels. While the stressors  
212 changed throughout the pandemic, the culmination of continued stress, moral injury, and emotional and  
213 physical exhaustion almost always exceeded their ability to adapt to the ever-changing landscape in  
214 healthcare created by the pandemic. The particular experiences of nurses differed for individuals and  
215 between settings, but important patterns emerged during analyses demonstrating shared experience.  
216 Two primary themes were identified: *Losing Identity as a Nurse* and *Hopelessness and Self-Preservation*.  
217 See Table 2 for exemplar quotes.

218

#### 219 **Losing Identity as a Nurse**

220 Emergency nursing was exhausting and physically taxing for participant nurses, with virtually no  
221 downtime, but they cared deeply and had strong professional identity as a nurse. This identity  
222 developed from their membership in the profession of nursing.<sup>27</sup> Unfortunately, as they felt unmoored  
223 from the social connections and reinforcements that had previously affirmed and supported this  
224 identity, their self-concept of being a nurse fell apart slowly throughout the pandemic. In this study,  
225 there were several factors that threatened nurses' identity and core values: being able to provide  
226 compassionate, respectful, and safe patient care and a commitment to the organization, patients, and  
227 the community. Four sub-themes describe the different factors that related to the loss of identity as a  
228 nurse, with each nurse experiencing a unique blend of these experiences: (1) *Potentially Morally*  
229 *Injurious Situations*; (2) *Broken Social Contract with the Community*; (3) *Betrayal by the Organization*;  
230 and (4) *Traumatic Stress Responses to the Experience of Being a Nurse During COVID*.

231

#### 232 **Potentially Morally Injurious Situations**



233 Foli's Second-victim trauma, which is stress experienced by clinicians involved in incidents with  
234 harm to others for which they feel responsible, was evidenced through their moral injury. Morally  
235 Injurious Events are situations in which one's moral code is violated either through their own  
236 transgressive actions or inactions, or others' perceived betrayal by others.<sup>41</sup> Respondents reported being  
237 unable to fulfill their professional ethical values and commitments to provide safe care for their  
238 patients. A shortage of nurses and organizational resources relating to Foli's insufficient resource  
239 trauma further damaged the nurses' professional identity. Despite these constraints, nurses were  
240 expected to be able to provide care that was commensurate with their competence and skill. They  
241 reported that systems that had previously worked, like temporary ED boarding, were breaking down and  
242 causing patient injury. The emergency nurse participants experienced situations in which patient care  
243 decisions made by other team members did not align with their ethical values. Despite these challenges,  
244 nurses' moral resilience scores measured by the RMRS remained above 37, with the highest score of 54  
245 indicating higher moral resilience.

246

### 247 ***Broken Social Contract with the Community***

248 Social Identity requires interactions with people in the "in group" and the "out group" to  
249 support the alignment with their nursing image. Nurses' social contract with the community is integral  
250 to their nursing identity.<sup>42</sup> Participants of this study asserted that social contract was broken and  
251 nursing's identity as the "heart" of the healthcare system has been severed. Community members who  
252 had not been vaccinated or were violent toward staff violated their sense of how nurses support the  
253 community and are, in turn, supported by them. SIMIC conveys the loss of support, and threatens social  
254 identity and well-being.<sup>28</sup> They could not see themselves as being able to fully commit to the health of  
255 the community when the community would not fulfill its part of the social contract, which eroded their  
256 sense of being a nurse.

257

### 258 ***Betrayal by the Organization***

259 Relating to Foli's system induced trauma, participants' wellbeing suffered greatly from failure of  
260 healthcare organizations to provide support leading to the loss of professional identification as nurses.  
261 Nurses felt that there was a significant misalignment between what their organization provided to them  
262 and what they needed and deserved during the COVID-19 pandemic. Organizational cost saving  
263 measures added to the nurse's perceptions of their healthcare organization's betrayal of their  
264 commitments when they were asking nurses to do more with less or to assume additional risk. They  
265 provided examples of nurses being furloughed, supplies being unavailable or rationed, (especially PPE),  
266 and loss of benefits like retirement and tuition reimbursement that made the job worthwhile. They  
267 described organizational responses to resource scarcity as lack of caring or support. Attempts by  
268 healthcare organizations to offer typical forms of support felt stigmatizing and inequities in  
269 compensation made them feel devalued. All of these came together and led to the conclusion that they  
270 were no longer a valued member of the healthcare team, a core element of nursing identity.

271

### 272 ***Traumatic Stress Responses to the Experience of Being a Nurse During COVID***

273 Nurses report their experience of working during COVID-19 as being traumatic, but often in a  
274 cumulative way, rather than a single traumatic event. Emergency nurses felt depleted, numb, lacking  
275 compassion, and possessing a sense of anxiety and dread. They had a disconnection from their work and  
276 purpose, and fears about infecting their loved ones. They reported experiencing unfamiliar intensity of  
277 emotions along with an escalation of distress. Trauma experienced by nurses during COVID-19  
278 undermined the values of nurses' identity. Nurses' commitment, significance, and deeply distressing  
279 experiences were not recognized or addressed by the community or healthcare organizations and  
280 consequently jeopardized nurses' identity. They acknowledged the mental health consequences of their

281 experiences and impact of attempting to explain their experiences to others. This finding was confirmed  
282 with 12 participants who completed the survey. An IES-R score of 33 or greater is indicative of probable  
283 diagnosis of PTSD.<sup>36</sup> Five of twelve participants (42%) scored above 33, with the highest score 73. These  
284 trauma experiences, which were tied to their experiences as nurses, made their professional identity  
285 sometimes painful, rather than a source of strength and meaning.

286

### 287 **Hopelessness and Self-Preservation**

288 The first theme described their previous experiences, but emergency nurses also spoke about  
289 themselves now and in the future during the long tail of COVID. A sense of hopelessness permeated  
290 their work and made them take actions to preserve themselves. Many of the factors that led to the loss  
291 of nursing identity contributed to their hopelessness, a sense that their life and work was at an all-time  
292 low. Some nurses were stuck in this hopeless phase, not knowing what to do but feeling a deep sense of  
293 “this does not matter” as they struggled on. Others described how they had felt hopeless, but gathered  
294 the strength to make changes. The erosion of their nursing identities profoundly changed their  
295 commitment to their jobs and the profession. They concluded it was not possible to simply return to  
296 practice as it was prior to COVID. They created mental and emotional barriers around work and began  
297 searching for new roles and new ways of being. Working as a “travel” nurse was a common “next step”  
298 towards self-preservation, with nurses looking for similar clinical experiences but better pay, which they  
299 hoped would make the work more meaningful. Others searched for jobs in outpatient settings or  
300 discussed leaving the profession entirely. Self-preservation was viewed as a demonstration of their  
301 strength, as they realized their needs did not align with their previous identity or current situation.

302

### 303 **Discussion**

304 This study contributes to the research on front-line nurses’ lived experience providing care  
305 during the COVID-19 pandemic especially how potentially morally injurious situations and trauma  
306 impacted their nursing identity. Consistent with other qualitative and quantitative findings, emergency  
307 nurses experienced various types of trauma caring for patients during the pandemic.<sup>14,43</sup> Traumatic  
308 stress was comparable to those experiencing or witnessing profoundly difficult events like war and  
309 assault.<sup>44,45</sup> Foli’s Middle Range Theory of Nurses’ Psychological Trauma informed data interpretation  
310 with theoretical assumptions that all nurses experienced trauma, and the seven types of trauma were  
311 reflected in their experiences. Furthermore, it facilitated a method to identify and distinguish the  
312 different types of nurse-specific trauma experienced by participants.

313 This study expands the understanding of how emergency nurses experience traumatic stress  
314 and potentially morally injurious events, which have an eroding effect on nurses’ identity. This erosion  
315 of professional identity in these changed circumstances creates a disorientation that unmoors even the  
316 most confident nurse. When they are unsure who they are and what they stand for, their foundational  
317 values as a nurse are violated and their integrity is threatened. Moral injury results when there is a  
318 traumatic or unusually stressful circumstance where people may perpetrate, fail to prevent, or witness  
319 events that contradict deeply held moral beliefs and expectations.<sup>14,15</sup> When nurses’ core ethical values  
320 are threatened by morally injurious situations, their identity as a nurse suffers.<sup>15</sup> Despite the reality that  
321 the pandemic created unprecedented resource constraints, nurses continued to appraise their identity  
322 based on pre-pandemic standards and in some instances viewed their inability to provide the usual level  
323 of care harshly even though alternatives were not possible. Nurses’ professional identity were eroded by  
324 the transgressions and betrayals of others, such as decisions made by leaders to constrain the usual  
325 decisions nurses make in implementing their roles. Even more damaging is when these events lead to  
326 fundamental questioning of “Am I still a good person?” for having participated in or precipitated actions  
327 contrary to their personal and professional values, producing negative moral and patient outcomes.

328 Facing traumatic stress, lack of support from the healthcare system and, often, active opposition  
329 from the community, emergency nurses felt discouraged and disengaged. Their identity as a nurse,  
330 often carefully constructed for years, was broken down. The reciprocal social relationships and purpose  
331 that had helped them to manage in difficult times was no longer effective. Even for the resilient, identity  
332 breaks down when these interactions no longer support a positive social identity or a sense of belonging  
333 in a valued group. A fracture in the social contract with the public has been particularly injurious for  
334 nurses.<sup>42</sup> Professional identity is formed and continues to evolve throughout a nurse's career and is  
335 impacted by self-concept (enacting the role) and context (setting). A misalignment results in additional  
336 stress and difficulty in retention. Nurses who feel their nursing identity is fraying from unsupportive  
337 systems that violate their sense of being a nurse, leave the profession or change jobs.<sup>46,47</sup>

338 Nurses in this sample reported feelings that vacillated between hopelessness and  
339 empowerment exercising their moral agency choosing actions that preserved their health, well-being,  
340 and integrity. Instead of viewing leaving as abandonment or failure, choosing to change their situation  
341 could be viewed as integrity preserving action.<sup>21</sup> Viewing their actions as indicative of their resilience,  
342 aligns with the quantitative findings that found that, despite their struggles, emergency nurses had high  
343 levels of general and moral resilience. The problem was not a deficit of resilience but rather that  
344 external circumstances limited their ability to enact their values. Harnessing their inner resources  
345 despite the adversity to do what is right personally and professionally is a hallmark of moral resilience.  
346 In this context, choosing to leave a position or the profession can be an ethical decision that  
347 demonstrates moral fortitude and integrity. Shifting the narrative from victimization to taking  
348 empowered action and exercising self-stewardship is critical in moving forward.<sup>48</sup>

349 This study has some limitations. Nurses were recruited from two institutions, and all were  
350 female. There were few nurses from ethnic/racial minority groups. Nurses that had already left the ER  
351 were not included. These factors limited the voices and perspectives of the unrepresented. Further  
352 research should examine the perspectives of emergency nurses not represented in this study. In  
353 particular, understanding the perspectives and needs of nurses who left the emergency department  
354 may be important for recruitment and retention.

355

### 356 **Implications for Emergency Nurses**

357 Moral injury and damage to nurses' identities must change from being understood as a rare or  
358 extreme event to something that many, if not most, nurses experienced during the COVID-19  
359 pandemic.<sup>49,50</sup> This normalization process is important and has implications for administration and  
360 policy. First, we must recognize that "common" should not be taken as "acceptable;" the largest  
361 healthcare workforce in the United States is deeply wounded, which cannot be denied. Rather,  
362 normalization is acknowledging that the profound consequences of cumulative trauma and injury  
363 cannot be ignored or treated only at the individual level but as a systemic problem. Rather than seeing  
364 injured nurses as abnormal or the "problem to be fixed", managers and administrators must adopt a  
365 trauma-informed workplace approach that accepts nurses as being in a process of recovery and  
366 transformation.<sup>51</sup> The impact on nurse's identity highlights the need to establish pathways for nurses to  
367 return to practice if they have chosen to leave jobs or the profession. Loss of identity may not be  
368 permanent; some nurses who experience trauma and moral injury may seek to return and  
369 administration must proactively seek to make this process welcoming and successful.

370 Nurses are frustrated with healthcare institutions and leadership. A lack of acknowledgement,  
371 unmet needs, and feelings of powerlessness during the pandemic have led nurses to feel betrayed.<sup>23</sup>  
372 The profession of nursing has been impacted significantly with changes in practice and delivery of  
373 healthcare.<sup>52</sup> A bold vision of transformation for the nursing profession is imperative to stimulate re-  
374 investment into the profession following the pandemic. Pathways must be developed to reconnect and  
375 provide self-assurance to nurses that they will be supported by their organization and their voice will be

376 heard.<sup>53</sup> Nurses need encouragement to seek assistance with their mental health and well-being.  
377 Likewise, solutions are needed to prevent incivility towards nurses, including those who left during the  
378 pandemic and have returned to practice. Leaders need to provide a safe place for nurses to talk about  
379 feelings as well as have crisis response available when issues arise.

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### 381 **Conclusion**

382 The consequences of the pandemic on nurses are likely to be long lasting. The levels of trauma  
383 experienced by emergency nurses eroded their identity as nurses and caused them to doubt that  
384 continuing as a nurse is a worthwhile professional decision. Nurses need to mend and rebuild their  
385 identity as a nurse. They will not heal without acknowledgement of their trauma, feelings of betrayal,  
386 and reconstruction of their professional identity. This will require sustainable system level interventions  
387 as well as individual supports. Betrayal from the organizations that were supposed to support them in  
388 their work sharply eroded their nursing identity and continues to impair efforts in rebuilding it. The  
389 solutions are not quick fixes but rather will require fundamental changes in the profession, healthcare  
390 organizations and society. These changes will require a strategic vision, sustained commitment, and  
391 leadership to accomplish.

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**Table 1 Foli's Middle Range Theory nurse specific traumas**

<b>Nurse specific traumas</b>	<b>Examples from this study</b>
<b>Vicarious/secondary trauma</b> <ul style="list-style-type: none"> <li>▪ <b>Indirect trauma that occurs when exposed to difficult or disturbing images or stories</b></li> </ul>	<p>"The hardest part was seeing them see their loved ones dying"</p>
<b>Historical trauma</b> <ul style="list-style-type: none"> <li>▪ <b>Multigenerational trauma experienced by populations historically subjected to long term mass trauma</b></li> </ul>	<p>Not discussed</p>
<b>Workplace violence</b> <ul style="list-style-type: none"> <li>▪ <b>Emotional, psychological, or physical trauma experienced due to direct assaults, threats, or harassment in the workplace</b></li> </ul>	<p>"It's more of dealing with the general public, where it just becomes a drag. When I come into work, I'm like, who is going to yell at me tonight. People have been attacking staff when we tell them to put a mask on. Patients will say, you're wrong, you don't know what you are talking about."</p>
<b>System induced trauma</b> <ul style="list-style-type: none"> <li>▪ <b>Psychological trauma stemming from organizational systems that have been created to abate trauma</b></li> </ul>	<p>"I was just waiting for someone to die for us to change our process. It was such a bizarre process, and it felt like we were hurting people. We didn't really know what we were doing. It was hard to go to bed at night"</p>
<b>Insufficient resource trauma</b> <ul style="list-style-type: none"> <li>▪ <b>Psychological trauma that occurs when there is a lack of knowledge, personnel, equipment, or supplies needed to perform professional duties</b></li> </ul>	<p>"People have gotten out of nursing altogether because COVID broke them. We keep trying to get our staffing back to where it needs to be but as soon as we get two people hired, four people leave."</p>
<b>Second-victim trauma</b> <ul style="list-style-type: none"> <li>▪ <b>Traumatic stress experienced by clinicians involved in incidents with harm to others for which they feel responsible</b></li> </ul>	<p>"He was my first patient that's ever died that I've felt physically responsible. That sat with me for a long time. I mean, it just sucks because we need help in here."</p>
<b>Trauma from disasters</b> <ul style="list-style-type: none"> <li>▪ <b>Psychological trauma experienced by clinicians who play an active role in natural disasters or traumatic events</b></li> </ul>	<p>"It's always hard. Every death or code hits me differently. There have been times where I have to step away. Even if I don't know the person, I still have to mentally debrief from it"</p>

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552 Table 2. Themes and illustrative quotes  
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<b>Losing identity as a nurse</b>
<i>Potentially moral injurious situations (RMRS mean 45.9, SD ± 4.6)</i>
<ul style="list-style-type: none"> <li>• “Basically, it’s a cluster F-U-C-K, just how unsafe my job has gotten.”</li> <li>• “There have been times where it’s been unsafe, and that—I was not okay with that. I went home crying one time, and it takes a lot for me to get that upset because I’m just so used to the ER. It’s one thing to be drowning and to be exhausted. It’s another thing for it to feel unsafe, which I’m not okay with for two reasons. One, for my patients, I don’t want patients being in an unsafe environment, but, also, that’s my license.”</li> <li>• “It’s a crisis, when you have people in these rural areas, that you can’t get up here because there’s not a bed for them. When we’re holding patients in the ER, for 36 hours because there’s no bed. We’re not trained to do that. When I’ve got 30 people out in my waiting room, that nobody’s monitoring. I’ve got 30 people out there. They’re sick. They’re just waiting. It feels like a third world country. It just really does. This isn’t how it’s supposed to be.”</li> <li>• “I’m one person. I don’t know what the heck I’m supposed to do. I have them on the monitor, no one else is helping me, and we were going back and forth. It was right before we did, once the doctor finally came in the room and we were intubating—or about to intubate that gentleman, the ICU doctor is calling to say, ‘Actually, don’t intubate,’ so then the emergency room doctor and the ICU doctor are arguing. It was just this total chaotic feeling.”</li> <li>• “Why are we trying to keep this one, or this person alive. They’re so old and their quality of life is not going to be good. Why are we intubating them and doing all this stuff to them? I don’t think that’s more—I don’t think that’s professional values.”</li> </ul>
<i>Broken social contract with the community</i>
<ul style="list-style-type: none"> <li>• “Honestly, I feel like a lot of people are just won’t take responsibility and won’t stay home and won’t get the vaccine and this could’ve ended a lot—maybe not ended, but could’ve been a whole lot better if people would’ve just acted like adults.”</li> <li>• “I feel like people who maybe would’ve been a little more restrained before this started are now—they just let loose and they don’t care... I still have good patients that are nice, but a lot of people are just mean and don’t care and we get yelled at.”</li> <li>• “I’ve noticed my coworkers, their very first question would be like, ‘Are they vaccinated or not vaccinated?’ because that’s gonna change how they treat the patient, and that is extremely disheartening, and it shows a lot of people’s true colors.”</li> </ul>
<i>Betrayal by the organization</i>
<ul style="list-style-type: none"> <li>• “Oh, it’s horrible. I’ve never wanted to cry at work and now pretty much want to every day.... we furloughed a bunch of nurses that left, didn’t come back. I think a lot of people burned out; a lot of people got scared. Now, we have the nursing shortage.”</li> <li>• “My eyes have been opened up to, at the end of the day, it just feels like a hospital is still a business at the end of the day, and all they care about is making money...that’s not why I joined nursing to begin with.... It just makes me question my entire career.”</li> <li>• “It was either Emergency Nurses Week or Nurses Week... but that’s when they told us they were taking away our 401K match and all this other stuff. They weren’t giving us raises or any of this other stuff. It was just kind of like you’re dealing with all this shit, but you’re not going to get any of this other stuff to make it worth it, so here you go.”</li> <li>• “When we got emails that we’re low on PPE and you have to wear the same N95 for three, four, five shifts, and you have to send it off to hospital to have it cleaned, and then that process, after they realized wasn’t even correct, that we had to stop doing that, or saving our isolation gowns.”</li> </ul>

- “Now, we're seeing a hundred patients a day, and there's nowhere for them to go. For the first time, I've worked in this ER for 17-18 years, we're boarding. I had a 93-year-old woman in the waiting room for six hours the other day, 93-year-old. That kills my heart. That is so hard to see. It's defeating is what it is.”
- “You only get an email whenever you mess up. You never get an email like, ‘Oh, you did a really good job. Pat on the back.’ Nobody cares. Nobody cares at all, like, ‘Okay, you triaged nine people in 30 minutes.’ Nobody cares at all. You only get called out if you do bad things. The only emails I get, it’s like, ‘Oh, you forgot to raise that two milligrams of morphine in the Pyxis. Don’t forget.’ It’s just stuff like that... they send out the weekly huddle, and random people get a kudos, but I don’t know. I don’t feel like you get recognized.”
- “They post little pieces of paper in the bathroom, like, ‘Oh, okay, you can reach out to this therapist,’ but, I mean, that’s pretty much it, so then if you do that, then you’re gonna get labeled like, ‘Oh, okay, well, [Nurse] had to go therapy because she’s having anxiety or PTSD,’ blah, blah, blah, and then, ‘Oh, I don’t think we can talk to her that way.’ You know what I mean? Nobody wants to get—and that’s such a big stigma that shouldn’t be that way of being labeled like that.”
- “I think it is too hard because you hear these people that are like leaving here and going to travelers, and they’re making \$100 an hour, and these are people that have been nurses for less than two years. Then here, I’ve been a nurse for nine.”

*Traumatic stress responses to the experience of being a nurse during COVID (IES-R median 28 range 8-73)*

- “I just feel empty. It just feels like I come into work. I do my job.
- “I have anxiety before I go into work, the night before. I have anxiety walking into work. I have anxiety the entire time I’m at work, and the only sense of peace that I feel that day is walking out, knowing like, ‘Oh, I get to go home. Thank God. I made it through.’ I mean, it’s hugely impacted. I can’t talk about work. I used to be able to talk about work. I don’t want to talk about work.”
- “I’m taking care of these patients. I’m trying not to bring this stuff home. I’m trying to be safe myself so then I don’t get COVID, and then there’s that anxiety of taking care of these patients that this is my job. I need to do that, but then I also don’t want to get COVID or something to happen to this baby that I’ve tried seven years for and just did all of those things, and it finally worked. I just felt like there was a lot of anxiety with it.”
- “Oh, it's horrible. I've never wanted to cry at work and now pretty much want to every day.
- “I think mental health was a huge challenge at that point, at least for me”
- “I just try to explain the mental and emotional stress of it is exhausting.”

#### **Hopelessness and self-preservation (CD RISC 10 mean 31.2, SD ± 4.6)**

- “I’m just not as happy as I normally would be. Because I watch the news and stuff and I come home from here and I’m just maybe in a bad mood, would be more often than I normally would be. I try not to be, and I just don’t want to go.”
- “Mm-hmm. I feel like, ‘cause I still go in and I do what I’m supposed to, but like I don’t—I won’t talk to people. I just go in and I do what I’m supposed to. I don’t want to make that sound like I’m not doing what I’m supposed to, ‘cause I’m taking care of people. I’m definitely doing that, but I’m not as maybe talkative and stuff ‘cause I’ve got a bunch of stuff to do. I just want to get it done. I just want to get through my shift and get out of here.”
- “Even if they gave those resources, I feel like it’s not gonna make a change, and that’s a big reason why I’m leaving. It just feels like there’s just no end in sight. We don’t have the resources. Staffing-wise, if they would address that issue, that would help a lot. A pay increase, that would always be nice. I don’t even think I have an answer for that one on the least. I’m sorry. [Laughter]”

- “We had people quit to go travel because why wouldn’t you go make more money than doing this, if you’re gonna get yelled at. You might as well go do this and make money.”
- “We had people quit to go travel because why wouldn’t you go make more money.”
- “I physically need to remove myself, so I’ve been searching for a job since August. People are always like, ‘Oh, I’m getting out of here,’ and I never thought I would get to that point. It just was so heartbreaking, but it’s gotten to that point ’cause this was a great place to work. I love my coworkers. It’s just pushed me over the edge to where the night before I go into work, I can’t sleep. I have so much anxiety. It’s been keeping me up at night. Walking into work, I just have no idea what’s gonna happen. I mean, that’s how the emergency room kind of always is, but it’s just gotten so much worse.”
- “We have no choice. The only choice we have is to quit, and where that’s gonna get us? Because every single job is like this now.”